Material relating to Francis Galton's paper "The History of Twins As A Criterion of the Relative Powers of Nature and Nurture"

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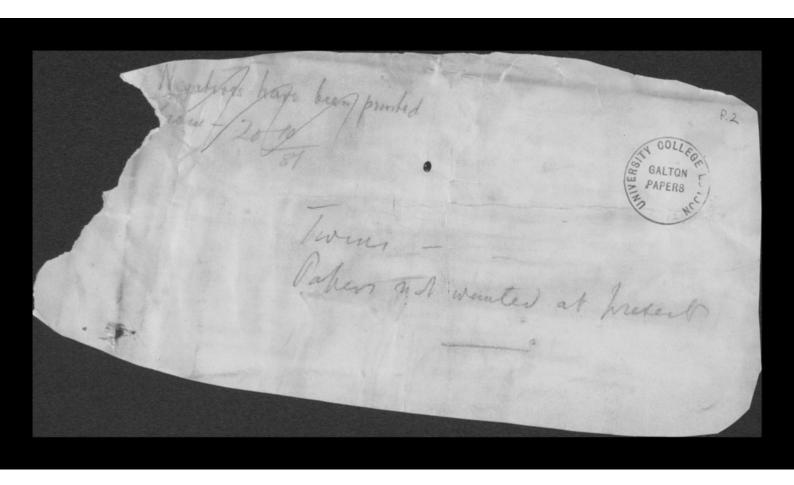
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Boyne Sirles Bell book girl They have been bringht of tigether I therelin put their deferences down to Nature! 10/1 Beaumos bag. Dishoutines totall unlike. They were adreaded brettes of the ace of 9 13. Coler bag Wir unfullable to find two children mere definantes that they now are. They have both been Educated as home & treated alike in Every way notit about 2 years aso since which time the bos her bad a tulor or the girl coverels their definitionstates of cleanedles mad have been winds as the external circlemelance After twee have been so much it lame, that the that to difference cannot otherwise be accorded to Auf Snowden Smith the Home training a influence were frecital the same and terretire I consider the Infrimitant blucosouste to almost cativel & invate I shouling a carres our GOLLEGE GALTON C PAPERS 2





QUESTIONS ABOUT TWINS.

By FRANCIS GALTON, F.R.S.

In the course of some inquiries upon which I am engaged, connected with the resemblance between twins, it has come to my knowledge that you are very probably able to afford me valuable information. I therefore take the liberty of sending this Circular to your address, in which my purpose is briefly stated, and the questions to which I seek replies are contained.

I propose to publish the result of my inquiry, with corroborative extracts from the communications I may receive; but the names of the individuals referred to, and of my correspondents generally, will be kept STRICTLY PRIVATE.

Object of the Inquiry.—My object is to collect data for estimating the respective shares that "Nature" and "Nurture" ordinarily contribute to the Body and Mind of adults; meaning by "nature," everything that is inborn, and by "nurture," every influence subsequent to birth.

The effects of Nature are clearly seen in persons, originally unlike and who continue to be unlike, although they are reared as nearly as possible in the same way; so the effects of Nurture might be traced in the gradual extinction of resemblances among those who closely resembled each other in childhood, but were afterwards reared in a more or less different manner.

It is easy to obtain suitable instances for the first part of the inquiry, but it is only among twins that they exist for the second.

I have explained myself more at length, and drawn provisional conclusions, in a work just published, "English Men of Science; their Nature and Nurture" (Macmillan & Co.), page 12.

I take the opportunity of asking other questions, which relate to Heredity. The *strength* of the hereditary tendency to bear twins is not yet ascertained; neither is it known whether the tendency is transmitted *equally* by the male and female lines. If my correspondents will kindly reply to the questions about uncles, aunts, and cousins, they will give data to determine these matters.

QUESTIONS.

- * * Please address any communications with which you may favour me, to Francis Galton, 42, Rutland Gate, London, S.W.
- (1.) Names of the twins, both Christian and Surnames? (It will, I trust, be clearly understood that no names will be published. I ask this question, to guard myself against entering the same case twice; to avail myself of corroborative evidence, if it should reach me; and to learn whether the twins are of the same sex or not, which is a point of some interest in respect to the frequency of strong resemblance.)
- (2.) How far were they alike, in body and in mind;—in childhood, in boyhood or girlhood, in youth, and in adult life?

(If they were never very closely alike, the questions 3, 4, 5, and 6 must be disregarded.)

- (3.) If they were closely alike at any age, give anecdotes to illustrate their resemblance; showing for instance, that near relations frequently mistook them. Test your estimate of their likeness, by considering details of it, thus, Were they of the same height and weight, and were their clothes of the same fit? Had they the same colour of hair and eyes? Had they similar powers of athletic performance? Were they alike in manual skill, as in drawing? Had they similar handwriting and intonation of voice? Were their special tastes the same, as for music and art? Were their dispositions similar, and their associations of ideas alike, as shown by their frequently making identical remarks, or by the same recollections occurring to both of them at the same moment? Was their state of health the same?
- (4.) Up to what age were they educated together, and in what respects did their education and pursuits differ afterwards?
- (5.) At what period did their close resemblance begin to diminish, and in what respects did they grow unlike in body and mind?

(6.) How far do you ascribe their increasing dissimilarity to the development, in due order of time, of the qualities they had at birth, but which had lain dormant, and how far to the effect of external influences?

HEREDITY.

Uncles and Aunts:

- (7.) How many Uncles and Aunts had they on the Father's side?
 Were there any cases of twins among them?
- (8.) How many Uncles and Aunts had they on the Mother's side?
 Were there any cases of twins among them?

Cousins:

- (9.) How many Married Uncles had they on the Father's side? How many children had those uncles (including all who may have died in infancy)? How many cases of twins among the children?
- (10.) How many Married Aunts on the Father's side? How many children had those aunts (as above)? How many cases of twins among the children?
- (11.) How many Married Uncles on the Mother's side? How many children had those uncles (as above)? How many cases of twins among the children?
- (12.) How many Married Aunts on the Mother's side? How many children had those aunts (as above)? How many cases of twins among the children?
- (13.) Can you give me the addresses of any persons known to you as being themselves twins or nearly related to twins, and who you think might be likely to respond to this Circular if a copy were sent to them?





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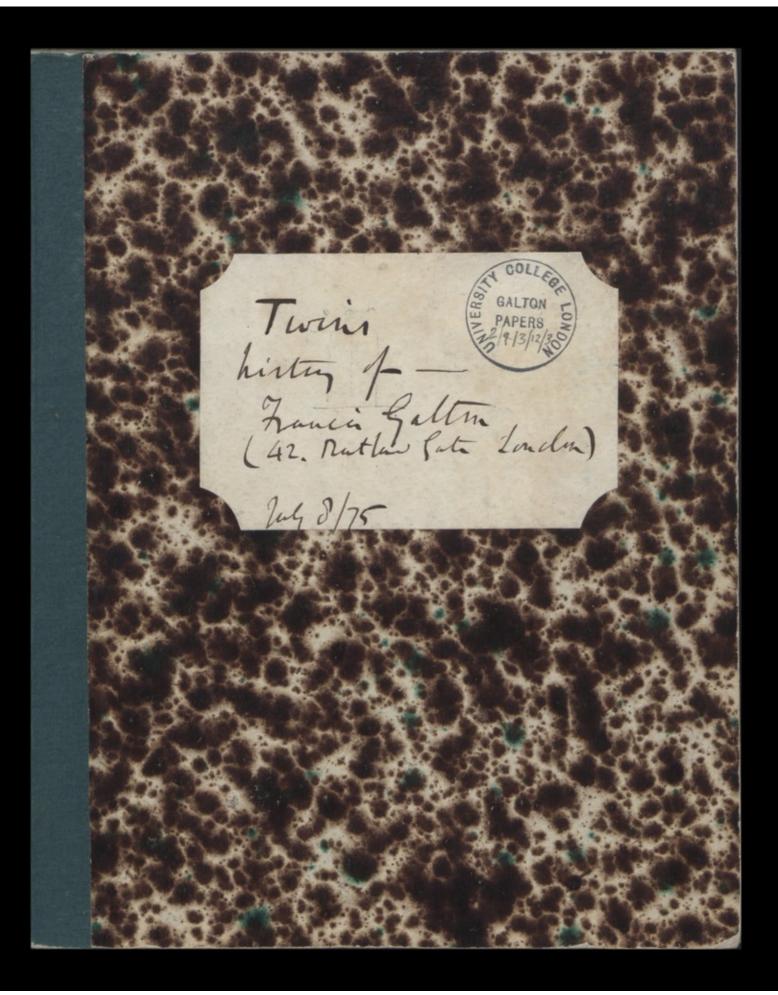
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22 × 9 = 200 words na frye.

Notes & deduction, from their resemblences. The recembling & Difficultanties of homis Trèvo as a miller I fact, may twin are strongel, white Mistitle to havent analysis of points of revents How have cherry without the things that I will the things the things the things that I think I think I an a meter of fact may twen are exceedy? Aprila havet be accounted their to primitioning afrom the this Conclusion nurture is a min agent, a if we take resonable Twin soperson statution - onght to be made much of "a futur Commenter

32



The exceeding 4 close resem blance taid been the subject of so many Islay, and words Speculations, that most persons multiplestice to know when what batis of truth, their tooks of fiction rest. But living have other clams Lattentin. Their history affords means of distinguishing between the effects when about man of the tendencie, that they received al their birth and ofthose that were acquired by them through the various circumstances of their life; in other words, between the effects of nature and nurture. The want of some sad, treterin was frely fo keenly felt when in previous occasions I tried to estimate the degree in which ability was in the whole might adduce was always muche " You take introfficent account of the influence of education and ophortunities, which are enjoyed by the

tur of succestal ruen more largel than by which I have been able to carry out, and I have tried many mellers, is whole tree to attack the broblem from the ophorite tide I sought to some new method by which effects of nature and nurture, and ascertain with some certainty their respection shares in framis the disposition and intellectual ability of the querality of ruen. The history inquiring the after history to what I wanted. First, by inquiring the after history to to he were closel alike his their larly life, water the period of their deparation, we may learn the effect that the de tuburguent cuffeences much have had in creating definitional set Second to the history of hours who were exceedingly unlike in childhood, will show how far they became afrinulated under the influence of idealizat mustures; having the same home, the same

The twent, being accepand the same age, they can be compared directly, it is not their being the same age, they can be compared directly, it is not as in compasse, with ordina, brothers & sisters, where the goinger one has to be compared with the recollection of what the alder one was at the same age, under somewhat I forest circumstances.

but there are the point & which the present men our will deal &

The herest plan is to begin will fact, a meddle, Mustraling the mean resemblance occurringly to be found between twins and then to familiarise the reader with my coodines. He will then be placed in a fair position to judy of that which follows, and which their true real object of their ficher to establish investigate, concerning the relation effects of mature of warture

trachen the same afrociate, and in long other respect the same surroundings. A than independent of age a maker there compared in the laterest of the interest consulted with twins local not stip lace here; the strappear to me that their listory confirms cortain phy viological views in the theory of hereinty which will be discussed in a separate memorial communication.

Circulars of inquiry to persons who were either twens themselves in the partials of house. The last of the many totalists that I fent was four the address of other houses who might be likely to respect of liverity them; their happing led to a continually loidening circle of correspondence which I furthered until enough material was accumulated. I found also that many scientific treatises exist, which treat of the physiology of twins I tome little of whence with the best of there is but show conden willingen von through the best of there is but show reference to other, authors.

I have derived some statistical fact, for their memoir and some physiological facts to be used in the tortheming memoir, but I have history a line overed any work concerning life -history a les I have to say about their is derived time the material, allected by myself concerning persons who, for the most part are now biring and to the rest, his but recently decessed. To begen with a few general faction The mode greater than is comments imagined, it is very variable in different places and in the same place at different times. It is greaten in Dublin, where it is I in hy; and loved in Savoy where it is about I in 140. In such care the the took average has no precise Julaning but it will give a serviceable idea of what many by expected to occur, if we inplose that ter Roug 100 birthes we that find I hove birth and again that to Every 100 twin birthes there willle System of the train birth (three at a time). Here the system of the free the greatets there the bery lare and not love thundred fred nately larens if they were so, we should find no more than one quartet in every million of births, but I The cases that are intermediate between there groups are not a numerous; I therefore look when the groups as furlamentally distrinct in character a not as convenient subdivisions of a continuous terries. I show have more to say about this on another occasion.

I have no data to determine the proportion of cases in which the trois were characterised by an extremely close resemblance, because it was to these exceptional case, that I chief inquise as a rough provisional estimate I think that out of locy 10 sets of hours, 102 are cases of extreme titenels, the same number of cases of extreme deficinitarity, and the remainder are neither particularly alike no the state the control of the and the and the state of the Twin of the ophorite sex are hardly ever closely alike is ting along curiously resemblance is their so far as I can judge fury the description, close not exceed attacketing ston, family likewely, such as is not infrequest between brothen and sitters.

myself know of three cases of quartets in the whiles tacks of English Society. as to quintets of living children they are almost unheard of nevertheless a case occurred in England a few years ago. One mallen told me that he heard of their unaine being the better in spirite of wine and expedited penny Moro; that he inquired wite the case and verified it; willimately when the exhibition began to fail he malle a Indicious offer, and became the happy popular of their (it is believed) unique obste-- rical curiosity. Face The instance, are about equal in number I the twins being both of males, or being both females, is being of opposite sexes. I that have to divell where their possib in my next The elder twin is in the whole, the heavie, child. The information I have negrely is the information I have neighbly

bean when their print Still to far as it goes, it is confirmatory of the elder child being the more healthy & vigorous. Here is therefore a valid wasm In permilly the land & custing of primoperature, to ling as they exist, to apply to the elder livin I am given to understand that an instance they that of facto and stare, implicite bey backward state of the art of midwifer lead does not exist occur now- a-days there is much mortality among tivin Mildren due to imperfect nourishment and to prefere and constrictions betwee britte, after. So that although I bieth in Every 100 bists a l'étifant in Every 50 lafant, is a lever, the proportion among other children is decidedly left. When the twinis and trins have succeeded in Durviving their infrancy, they seem just as will as other people to bear their part in the battle of life. Inleed in some case, they

(I understand it the a matter of notoriet, that do do with remarkable Incept to Bendigo the deflechampion prize fighter, was a trin, as law informed many men of ability have been howing one of my returns is There à well kuron mathematician, a tenier wage who was a leven, and the Lord, Elden & Stowell had lack a hour sitter, thirting The many instances of firstinguished horas there tous a chorum cafe in the Bach family of munician, felluded & in my Hereditary Sergian & I may also mention a story in Ortorllai loarwickshire worther, of train, the children of a peatent. They attracted the interest of King will why had then aducated & they all grew of the booton to si or note was a somewhat quinent theologian x toures as une of has Co to the toothides I have relieved Concerniz 3 set, of trins, in Each of which all three brother lived to be part do seun Jage.

The belief exists that twinin quarall, and especially those who nearly reserrable each other are more weally than other people. I will give the evidence I profres as to the latter point. Out of about So cakes which I have collected of very close retenablance, 35 are given in tad delait as t enable me t treat them as a skharate serie, to use or such occasion as the present. I select out of the Is cases those in which the two is apparents to increase the the apparents to the delicated increases the average be gover . They are 15 in ruing I give in every take the loveds of the writers, and occasional condensation stight editorial touches even attent things the upaal market quotation have been dispensed with . I to save prequest repaintocations the Elder twister Water af designated by A & the granger by B.

Cares in which both hours, being closely, alike, have more than the average vigour: 15 cases out of 35. that is I care of two brother of I him (Twin Brother, & cakes) Lus In their boy hood both had very high shorts in their youth, they were proverful and active, and especially proficient in what was then called "the noble art of self-defence." They were also ardest politiciam and liberaly. (2). Both of them were excelled cricketer; the me "all round", the other, a batsman. (3) Both "duffe! at cricket. (4) (The were extra remarkably bigorous, boisterou, and irreprefible) (5) Both fond of alletic sports; they are nearly to feel in height. By Similar and considerable hower of athletic performance (7) (Both take much athletic exercise); their height, are bill 1/4 ich And bit 2/4 wich. (2) (Both have attended Considerable official positions) (Iwin Sister, 7 cares) 191 they are very couragious and ready to any achletic exercise; they were famous at foot-bug

and now Skate very wicely. They hafred the Cambridge local examinations, the one taking the only first class of her year, the other, one of two or three seconds. 10, Cun walk or Swin with the same power of endurance; both have wor several prizes at the School of Art. II, their physique and their every development seemed alike; equally robust, they could undergo the same amount of fatique (12) the love quite equal and, believe saperici to most of the other member of the family; they certainly attained to greater ages, 79 and 93. (13) they have equally good use of their limbs for running, dancing " riding and skating. My they had Smuter power of athletic performance, as in swimming paddling a cande, skaling and archer, (15) they are both very intelligent and fatt of fancy.

This is the evidence that 15 out of 35 dets

have decidedly more than the average amount of vigour. it seems to show that about half there is a very amount or in other words that the twein ary magnal to other people. The statistical reader may be reminded that if we had been dealing with twent who independent in their like the problem would have taken another that the locality with the present case with clouble event, and not as in the present case, with what may be contidered as refetitions of the same event

There is another, popular belief prevalent in many countries that both of the instances it never occurs that both of the hours having children. I have many instance, in disprog of their but not enough to warrant any estimate of the fortilit of twining quaerally. In question in their subject was inserted in my circular and again, a large proportion of my returns when sent me to the havents of Twinis who were to the havents of Twinis who were with grathful and had rarely been

both of them married to many year.

Still I have enough evidence to warrant a belief that the twin are decidedly left fertile than other people. This reason, combined with the increasest I chance against any double event, gives some stratt ground for the popular belief.

I will now endeavour to illustrate from
several points of view the close similarity
that frequently exist, between twins, by give;
a text of extract, from the So returns to
show the number of themistake, that really
arche from it. Being precluded to encidence
of propriet; from printing more that shorts
extract, I have thought it but to confine
myself to a single extract from each return.
This will give the reader a correct idea of
the lane number of cakes in which a similarit
exit, for exceeding that of an strong family
likeness of the provinces is which as similarit
whench of the provinces is therefore sort.

4.14v

Joseph some sent to the serior fresh, the replies beig usually of med general town as "extremely alike", "mentakes continually made"

x the like. Again it is only a small part of the senecioles that I have received, which I am about to give.

there returns are chiefly from the parent, the twini Themselver, from their children Two cater from very observant medical men who were intimate friends of the famely and not more than two is three from more distantly related informants. I have been very careful in the selection of my data, and feel satisfied that they are free from draggeration. This being premised I proceed to quote, not exhaustively but merely in illustration Jeneral remark, as & like wife: -(1). They were to winderfull alike that almost he one could ever distinguest believe them and as they grew older they continued alike, though changing in appearance. (2) most awfull, alike. (mena: "this is the phrase of an accomplished author who does not include in randing and exaggerated exprescions). (3) Their teeth grew at the the

spoke alike and together, and said the Same Hungs and seemed just like me person (This graphic little account was given by a person who had casually met the twins at the house of a mulual friend). mitakes of parent, and nurses, whenther Hatelinen ware grouped the regards physica-(4) When about 4 years of age, they trustened together from a severe filtile attack and in me expecial occasion, me child was given too dose, of medicine, the other escaped her done; their sick features were to very similar (5) a dispute often arose between the mother and their nurse as twich little of them way and the mother has on more them me accessing quen the one a dori of physic which was intended In the other (b) (I have a therid care of a similar kind) _ ar regards tood .-(7) an amuting instance occurred when the were 3 year old, when their mother in one occation dieted med them by mustake for the other, and at that time we were in the habit of saying man

times in the day," which are gen. 171 The nurse one day fed the same one hover over though the fancied the could bed be mittaken, till the hungry one cried to food for the twin are not only aft to be physiched and fed, but also to be collipped vicariously, thus; - (d) they were to alike when about by can old, that I often corrected the instead of the other, we were obliged to feat different neck tee. on them, to know the difference believen them. () and xay (I have two other, instances of mittales in providental by harents in punishing their children) hupiges No left than eight accounts have been deal me of a horis seeing his own reflection in a large morris at the end of a papage is elsewhere, and believing it to be the other hour in perton, The tollnoy is an instance of an analogous but more permanent blunder. (9) Both weat & a photographer to have their carte, de vinte taken, The still heavy to go in a journes called to his and got by mistake those 1) her brother, which he contidered to be a capital

likeuch of huntelf and distributed as such aming his friends. He did not discover the mittake notel after his return. __ Hereis a close in which the artist Even a portrait painter with mistake his subject, thus (14) When 3 or 4 years old, an artist who was taking their portraits, was prevented from having a tetting for three weeks; in returning his work, he could not tett to which child the respective likenefus he had in hand, belinged. __ Tatori and traditional in dorbt, I have many intleme, of this, and quote the following: - (15) Lo closely did they resemble each other, that their music teacher was touting repealedly imposed afon by them. They had their lepour at different lines, and they took advantage of their t deceive line, to when the one wanted a holider the other world take her place, (16) they were find of playing trick, in people and complaints lover trequents made. The boys would hever our alich was the quilty one and the complainants love never certain which it was. The headwarte, used & far that he would never I have been told of a case of twin bouter when had none of the affection when le existing between twing but towns tried to the lack of the world world best and when he had the off orlund world fertomate the other and do something wrong in his hame, I get him get trouble.)

flog the innoceal to the quitty, another flogged both if they persisted in refusing to confep which it was . [17] Exactly alike in all. their Achodmarters never could tell them aparto at duacing parties they constantly changed partners without discovery; "close resemblance "searety dimuniarlad & age . - Here is anotters batch of abound mitteles: - (18) anuting scene, occurred at college when me cauce toutit the other; the porter in one occasion refusing the the vitita out of the college gater; to though they stood side by side, he professed ignorance as to which he ought tallow todepart (19) The barber used to cal the hair of both, thinking they were only one person. (20) he their land city days, they when to dine at the same place; me say, at half part hoclor and the other about two, and it was the prevailing idea at the diving loom that the one was accustomed todine daily (my informant, their father, who appears to be a thread many business abor - the italice are his own " this

Ev on 1 20.

wicht have been twent to commercial account without scruples" - Quare "without scruples" or "by people "without scruples")

the can may be to their parent then: (20) Such was the narvellow, similarity of their feature, voice, manner be that I remember as a child being be, much puppled and I think, had my accar lived much with as, I thould have ended by thinks I had two mothers of have other cases of their kind from of twin from whose relieves prototion. I have already been extraded; the following to me their them I them I there and are so of their moment, to much so that our children who their moment, to much so that our children who to said he gern old did at know as efact)

when a twen is enjaged the married there was told: (22)

when A was enjaged, then was a terres in the family lest her loves might not sufficiently obistinguish and be constant in his effection consistent in his faster, I seemed obvious that enther A a B world bear suited him equally, though they did not exhably

haze in p. 15 (9) Their mother hardly knew me from the ithe, and an aunt who was much with still says that the thildren got changed in their bath and that A is B, and Bir A. (19) They are now 12; term their birth I (the father) have not known them apart though I ought that my knowledge of face, in defective. Almost con me in the house makes midutes about them . This very incurrent I have been called into the other, worn, where their mother, in the Spire of the moment, was mable to day which was which. (11) (The tolenois is a umarkable care, given me abrong many other ancedoter, by the brother of the living & Stoud fla who were there in middle life) Some grace A was again coming home took tudia, or bases The ship did not arrive form some days after it was due, the twin brother B had come up from his quarters t receive be A; their old nustre, was by heroom. One morning A surhed in saging "oh mother how are que?"; and her answer war "NBB it's a bad joke, you know how anxious land, and it was a little time before A could pertuade her that he was the real man. 129 the one occupies when

Continuite I returned him foreign dervice, w, father twent I me and said, "I thought jon were in London," thinking I was my brother; get he had not seen me to nearly to years, - our resemblance was to great. Good in page 15

f.22 v fundi culan

like him - (In another care, buin which I have already gusted, A get married first, but both met the lady together to the first time and fell in love with here there and them. A managed thee her home and to gain her affection though B went Sometimes courting in his place, and neither the lady nor her parent, could tell which was which (23) (I have a German letter weitten in quaint torus, about twen brother who married tisters but could not easily be dittinguished by their musicians to the same was laid of the two Bach musicians to the track family I mentioned is my theresting gains") I must take their phorteent of torrector an anecolote hublished how heartag in hy "hen of science" about many hersinates his brotte tora brother al a bufiles by futting in his dreft, and not being diversers by the write. I had generous windered with a member I the fame, but he heard in left watil often the page that to pref. The story is unconfirmed, however, the twent in questions come extraor Anacio alite and I have received fire the trotte of there many curious anecdote, about them)

(24) In the well known wood by her within Collins of Por hufe Finch, the blind girl distriguisher the the toois the lover, from his brotter by holding his hand; it gives her a thrill which the touch of the trother does not. I do not know that philosophers have get investigated the conditions of tack therette, but I have a call in which the touch of both twin appears identical. It was related to the by two the twing who of the twing the subject of the anecdote. It appears that the she frequents that that "kifting her horn sister was not like Kelsing her other hand, to example?" her self, - her our It would be an interesting experiments to between them by scent.

There is a curious feature in the resemblance between twois, that is well illustrated by the tollowing remarks, - 1, There seemed

to be a sort of interchangeable titerach in expression, that often quart each, the effect (2). (These twin, who are closely alike, in analysing their characters, point out certain shader of difference, and add as follows:-) These seem to have marked us through life, Separated, the one to go thank and the other & collège, our respective characters evere invested, low both thenk that at that time we each lan int the character of the other. The proof of their consist, in our vien recollections ti our correspondance & letter, and in the bour we then took of matter in which we were interested. (3) the wire Aten mistate to Each other; to instance they often weed to let their much quel which of them was A, and he usually took hein for B. - Many Similar Cases might be quoted. It may be supposed that when two people are closely white, sour expression in the one may be

matched by a corresponding expression in the other, but it does not follow that the the same in both cases. Enclavored be aprocrated with the phases that were the most comman in his case and when he love another the exprepen. most comment to his briller, would be mistaken to him. Uguin in the normany praces of developement, I find cake in which the same goal was started from and the Same goal reached simultaneous, but his which the course was not Mrielt side The following is nothing attendent the whole obtilance, were les aloke them they are new, A being huch the larger child . In they become older the likeach became stronger, although the A remained the heaver and tatter, requiring longer clother and larger books and gloves. at the age of 15 the yourcer because the taller and Horter; now again

at the age of 18, A is the taller.

That analysed the details in which the resemblance failed in the several case, by In a few us point of difference could be specified. The remarked the estore I the hair & Eyes is almost always the same; the height & weight is generally by wearly but med ideal in a few case, obbevioire close resemblance, llere ives a udable difference; the manner x addless, to usually the same the intraction of boice when speaking in commonly the same but it often happens that the hours sing li different keys. Trequeatty there is a difference of expression, familiar to the Gazgrate retemblences. The me hour in which similarit is lare is stranged enough the handwriting - I have but few cares ! in which it is closely aloke and several and only one in which the twins say they themselves had frequent been purgled in the the twins say they themselves had frequent

in which it is exceeding I different and tours
in which it is the only point of difference
alluded to The different mon strange,
as there is frequently strong family likery
in hand wistings; may its he me simultance,
the hered tang transmitted.

the france, extract, have been taken onto

Cases of both twing suffering from some special ailment or having some exceptional peculiarity.

(1) They both have the defect of not being able to come down staving suickly, which horocoes was not born with them but came in when they were about twenty pain old. They were both tulged to asthma (which the inheritial time their father and grandfull the the goings was light a nine but the Elder that contained has the war about twent, one; since

then, they have become left frequent. 2) Then is a conquital flexure at the second phalangeal. jouit of the little forger, in Each of the troins, but not to murred as I could untightlines a disconfirt. I have (informal, a medical run) have ascertained that they inherited their turn their unternal quantruotter. Their parate lace no trace of it, not their town trothers and three Liter. is, one was born rufland age of six. (He other became ruplaced at the age of livery two the age of livery two B weat tretide to tome years in a troffical Colon; Eighteen month, befle, he had gone there both his hair and that of his brother who has remained in Sugland begin to grow their round the crown , to the same extent in Each care, then the thinning stopped in both care, B returned after 3 years, and the state of the hair of A and B continuer still alike, (4) be both became bald at forty. (5) at hogas three year of age, they both had took - ache, and the same tooth had to be drawn in each

hoer frent to care against hope 10

the same, and they both died in middle age of heart deseate. One howcom survived the other has been pair oring as Ing correspondent contident this having had by far the left professional strain who were greatly attached and very much alike, both became government clerks and lived together. One was the other had been and died, then the other sichered of the same direase, and died, then the other sichered of the same direase, and died three months later.

Laser of both twins being often ill at the

(1) Their general health is closely alike; whenever one of them has an illusty, the other invariably has the same within a day is two, and they usually recover in the same order. Such has been this case with whood wing-cough p chicken her, measter; also with bilious attacks which they

have succepiacly, and latters they have had a feveril attack at the Lame time. 21 If anything but one of them, identical tymplain nearly always appear in the other. This has been riquely writte in two instances, during the last two months then, when in London, me fell ill with a bioled attack of de realization 24 hours the other had live isely It same to unflower; a similar corneidence took place with meatle, (intimately) to a period of two years, there was not the styletest tendency toward a difference in body 4 mind. External influence, seemed powerles t produce any diferentarit. I met liken. three mouther ago or board a steamer in Horney weather, and discovered that they both were got Jea-Sich al the lawe time. My Their Hate I health has been always the same; they severally feel poorly states shows those and have cold, In, about the same time. 5, like they wen little children, we used t say "A is arting and B will som droop " las Their

attenent; were not always traintar. Salterly, they being now liverally - live, we have not observed their consecretions so much. It, when they were thething a became ill, the other began two a three days later. 17, he babies, if we worke, the other was Sure I was also; for their reason we used that I was need to bay "I was have always been sometar; both had an attack of of the line at the age of fourteen 19, while the age of fifteen when as had a serious while they generally shared any little indifferentiers, in our followed the other willess a few days they thed their first mith tooth within a few hours of each other.

Similar apociations: -

insultaneously attered the same firming and recalled the same remembrances. (2, The appropriation of their relian was uniforms (the Same

and at the tame moment. 3, Than frequence noticed their individuality bushore and detire of being and acting in concert. it, I should certain say that our apociation of ideas is aloke, as we often make identical unaches. 5, they do make similar remarker at the laul time, by loken foring, me would begin a leutence and the Other would finish it y there was often a count deuce in their apociation of ideas, as thewar by their remarking when the lame subject or commences thing the same song at precisely the same mones. 18, also-- crateries bu sauce, 191 aprocratera of ideash constar, (19) aprocrating and unaches alike, (11) A few years ago B being at Glatson have bought a set of champaque glafier & tring time, A remaining in Bradeford, bought a set of identically the same pattern for the exactly similar fully being this is only one out of three or four curion ancedotes respecting there living).

The closenes of the mental resemblance to be found among the 35 sets of homes is sufficiently proved by the foregoing evidence but it may be added that in about a Hird of the whole member of the relience I find phrose mel as "tasted and distastine exact, alike"; alu cases in which the brother is sisten when at school, kept side to side in their clopes, having exact, the same montal ability. In fact, about the tikenel may be aframed where difficultavity is not possible out and as I That Mostly have to theat of difficultarities it is unnecessary to divell larger when literal I may wenter that here that I have only one care of strong pertinal liberite accompanied by strong mental difficultarity and one cake also of the converse kind. The questionis that arise out of their will not be discufsed here but in my next where. In the mean traine, I would worm my readers against accepting the above fact as evidence of a giveral rule hands that feature, and qualities are intimated connected; such being by no means the case among brothers x sisters who are not twins.

This circledes all the evidence it leaves
necessary to addice, in proof of the closeness
of the resemblance to occasionaly met with
in living. It shows that a few cases of
extraordiant close resemblance have been
found during an inquiry which has reached
but a minute fraction of the foundation, and in
faithfier the belief that a more exhautions
research would proportionally add to their
hundres of the marker. Aller, that it would
observe some in which the resemblance exceeded
that of any of my case, and would therefore
amply justify the most extraoragast creations
of the kind that have been small by
writers of fiction.

without fuller information. D' Moreau tells his tale in far too lary and off-hand a way to carry conviction that he had investigated the case with the scrupulous exacting which so unique a phonomenon whald have richly deserved I full and precise notes of the case exist, they certainly ought to published at length.

faces of insanily in hours: 34 I am informed of three strange caker Exactly that by D. J. horeau of Town. La Tsychologie (Concerns parallel attacker of madrefi in levinis D'Morese tanks as a very considerable medical entherety but the paralline which the trace, in to minute & persistent, that I herstated in accepting ilfer that . I tent copie. I the papage to the superintendents of the chief lunatic anglicus in Sugland asking if they had ever witnessed any and takes; their replies confirmed by hertation all I have able to gather of the kind, are 3 or to pretty closel spike but that might found among brother or sisten who were not twins. The circumdences of these cases are paintful and I do not feel justified in fullithing extracts him them. (90 on in page 30)

heartatina and afterwards the small hox, from neither of which did the older one suffer. Since there complainly the beauth has been a little sucre excitable and sucre sainly disturbed by concentioned than the otter, though she is strong and action and perfectly well in health (b) Their state of health was remarkably able and generally

The question I put, to gain information about there, were " At what F.BAV heriod did the don resemblance begin & deminish, and in what restrect, did the grow white in body and mind? and again, "How far do zu aderibe their increasing distrimitarity to the effect of external outlineaces, and birth, but which had lain dormant?" The order of the qualities they had at birth, but which had lain dormant?" collected and In order illustral et word full I will give going installed has reached me of one library avig had a remarkable illush in accordent which the other a literally exhautive, but how in all cases Out feel empired the the fall of and character of the correspondence that it is to in facts them were apprend as causes of stight office accidental causes of difficultarity Ha 13 cares out of 35 . 1

beg good, except as regards one Much of searles fever which the elder had very severely, whileh the younger entirely escaped, although expored to the porin at the same time and in the same manner. lebort the age of tweats one the A Elder became "engaged", and in now thinner than the by ounger, so that we (the family) know them apart. 5, they were at the same televol and were kept in the same class until the elder was attached by typhun fear, which was at that time epidenie; he was consequently kept at home to a quarter, and his brother got a class about of line. (I may mention here, that I have a cake of twin sisters who were totally unlike in mind and body, but who were totally both attacked by ty plus fever at 1h. Its effects when them were exactly ophorite; A, a small trail chield had been extremely delicate, the fever completel alling ker emolitation to the better, and the in marin berg good health. B was large is frame, the had been extremely robest in health and almost hoydench

39 37

undered her delicute; the has been to ever time, and the is now a timed, yielding (orman") (h) the health of the hours been been triular wad almost invariably good but A had a nervous fever after the married which has perhaps left her a little more Sensitive. (7) their close resemblance began Edirunish a little gradually, but the great difference took place after the time when A went t India, of conou the effects of an Indian Climate have been considerable (les a set off against this "of course" I would remind the reader of the case 11 in p 19 where a four year retidence in India had produced to little change that the his own mother thought world not to a while he was A, but he brotter who had personated him) (8, Bar his birth was the bea one found heavier than A, and he continued to be the heavier antil the age of fifteen, when he became greatly reduced by an elluch of

eight months duraten (9) at birth they were brackly alike, except that one was born with a bad varicore affectiva, the effect of which has been t prevent any wolent exercise much as dancing in running, and as the has grown older, trucke her more serious and thought ful. Had it had been to their informity I (the father) think the two would have been an exactly asike as it is possible to too wormers to be, both mentally and physical coen now, they are constantly mintaken to me audther. (10) They were begund alike in dutational (numerous ancedotes an given in proof of their extreme retendance at that time), but during the last thirty years they have become less and less alike. On of them, when a young man, had a very bad fracture of the leg, the effect of Whith was threaest him ever after form taking proper exercise. He is now stout, whole his brother is their and of active habits. (11) the younger suffered a little trom a red eruption up to his sixth gear, f There tooms are more grown up and cutine to be extraordinary alter - He is a little the less lively his temperament.

(12) Up to the age of seventeen it was impeliable to distinguish then; then A fell off in health and his court to was retained , so that Bs became four wiches latter than he was . By the age of 20 A has required his health and likewelf but he is thill about an wich left tall and will finite to stout as B (13) A, when a boy, had a swelling of the clauds on one side of the throat; it was as large as a small egg but is now, at the age of twenty wine, much riminished.

Natural causes Adefinitionity

(4) Hey as

h. 45 46 spent 147)

hatured mental difference, in twoins who were outwoods alike: - (many of the lettract, give, I see, a notici of a stronger difference than the letters from which they were taken, did in the whole, convey. The reader should understand that in all cakes, where the contrary is not emphasically stated betwee such phrase should be understood as: - "Faste, and dishoution quarraly the same, but".)

19 cares out 1 the 35

The evidence their far, has chiefly encerned physical differences whereas we are most concerned with mental differences. The replier santhand states the tellisty directed towards to analysing the differentiality that exist, rather than in tracing it growth for the senifle reason (which is aphasent enough from the tone of the replier) that there differences were intorn, and developed of their uns occord. Such differences as more face their men occord. Such differences as more face to are the accident of any kind, were given in the previous, growth.

Natural mental plifteraces in levenis Who work ontwardly afile . It must be undorstood that myork of rese have been prefaced if some and photose as write, and dishippitions of cares out the 35 hours where the man minimum of the present distinguished and another shades of distinguished in description and energetic; also the more quick tempered. Bis quette, clinquing and timid; she is a little inclined to be sulky, but is the more affectionate. 2, A is the stronger minded and more persistent; the hai also of always been of the great courage which B in the more agile. 3, A has great courage which B

lacker; A her also had better general health, But B is a little the stouter and heavier. (4) A has a stronger mind and a finer disportion; the has the better abolities to that I (the mother) used frequents, I tag " the is a year older than her tistes"; she has the greater taste to mulie; the has always been the Stronger (physically). B is the more tender hearted and effectionate; the has the greater taste for drawing. (5) A has the best nerold his riding. B is rather the taller and stinter of their fail of Hower and arrange thou will great tate either in notegy, or do ied in a book. (ih, A is more ardeat; Bis more calm and gentle II A is more active and hand; neater and more elegant; thanh, critical and ford of reading. B, who is slight the larger and heavier is anokward in her movement, and inclined the left hunded; the is more droll, more affectionate and clinquing; more indolest. animals are more attracted & her than by her sister, though both are fould animals, and are more pleased & her touch and notice. (I

Mould menten that their is the one case, which is a review of all the circumstance, connected with it, it has been proported to class mader the head "closely in body but native in mind"). (8) Their characters are finites but not altogether able.

(9) This is the case alread, xnoted N=(V) of a differen (9) B has the organ of wit more large developed, her herceptions are quicker, she has a more devilable temperament and a more sensitive herooms organization.

Brothers (10) B is more interpentent, original and self-contained; he is larger built and stringer physically, though not in constitution. A is the more generous, hasts and vivacious (11)

Therefore B remarks that he is said to be the more "pepperg" of the livo; he is the better musician and a trifle stronger in athletic hisformance. (12) B is the more vivacious.

(13) A is the Fatter x the storter; B has the more mental power. (14) BS anguine and

Smetinies defreehed; he had much the best tember though he was much the thef thoughther (of others). A was the graver in boghood, gentle and more even shirited (15) B has perhaps a little more decirin; he is slightly the taller. (16) A har a tomewhat more lively tomperanuents; Bruffored a little of L his hit (1h) Ais a little the more boisterous of the two (17) A, wideheadents of his profesional purmits, followed with apiduity Geology & Natural Hertory; he because a liberal, his family having been always Staunch Conservation; his heard is the larger. (in all other respects the brother have an astonishing mental as well as bodily resemblance) (18) The one has become rather more buxurious than the other, and more particular about his persons appearance (19) A works most with his head. he is now the taller. Bworks most with his hands

The two last grown contain the whole of the evidence that has reached me concerning the freitence and growth of diffirmitarity between the pluring. In not a single instance have I tound a word about the difference being caused by the action of a firm and free will which had conted nature to bend wader it and get a singularly large proportion of my correspondent are clergymen whom bent of mind is ophosed, as I feel apared ten. the time of their letters, to a necessitarian view of life. The evidence appear to me to their that the range of circumstances to hick affect persons of the same social condition, have they bittle effect in couring disprinctarity, with the sole exception of illuspe or jaccident which broduce physical infirmate The twing will continue their lives are out thrown out of accord to some desting in a very haprice spirit: go as 147

(Truer in p. 39) destring in the a perfectly prince spirit. The Theffect of illness is greater than I had anticipated and seems to deserve some consideration, especial, as sanitar discipline admits of being enforced. It applean from these returns that the constitution I routh is not so elastic as we think, but that an attack of scarlet fever leaver a permanent mark, early recognised by the present mode of Comparition. This remainds we of an imprepin made strongly in my mind several seen ago, by a few curves drawn by a mathematical friend. He took monthly measurements of the lives two is these years of their lives a having protracted the measurements in the succepie lines of a ruled piece of paper taking the love of the paper in a ball line he formed a curve of growth, by joining the free Ends of the lines. The curves had on the whole the unlaw tweely that was there been

expected, but it also showed occurrinal halts, like togicant level stages in a lung curved inclined. The development had been arrested by smetting, and was not had up to by after growthe. Appoint lad of these halts, my friend had on the the various infantine illuspes and to Sad. illness, was one of there halts. There remains no doubt in my mind but that if the ilmaper ment of the children world have been fine words the almost the precise amount lost of there halls. the disease had drawn when the capital, not on the vacame of their constitution. I hope there lines may induce theirentifice men & repeat the experiment in their as get unborn children. They can compreh two years of a chito's develope - ment on one side of a ruled half sheet of tool scap haher if they let Each total line

what we find among trotter & tisters, who are

not trovis but are outward, sund alike. Entreme difficularity: - (huar 20 cars) The last set of extracts which I shall give are there refessi taten from those cases of sharply contraded character features of body & mind which I find try surprise, are no less a marked characteristic of twins than an the cases of extreme when thence. (1) they have had exactly the same nurture from Marked definitions their birt up t the present time, they are both perfectly health & Strong, get the alterwise as definition as two bors could be , physically , mentally & in their Emotional nature. 2, I thinked say that my sisters. Character and by our are diametricall ophored and have been attent chifferent from birth. (they are equally opherete in statute & effectionce) 3, I can answer most decidedly that the twin, have been perfect, difficuitas in characte, habits and theilly team the newest of their bisht t the present time, though they were murted & the

Lame woman, went t school touter and were never reparted tett the age of fifteen (4) (The father remarks) they were carriered of Herent in bod a mind from their birth & (The turviving twin adds) a fact struct who our school contemborary that up brothe a I were complementary, so t theck, in point of ability and disposition. He was contemplative, poetical and leteras to remarkable degree, shewing great power in that line. I was practical time the mathematica and linguistic. Behave u, we thented have made e vez decent sort de man. E, Singularos untiler in body and mind from taby hood; A was of a placed temperament, fruit of mathematic, at school, president & careful, event & college A became a cheryquan; B was sanjune and for of clopies at school; open hunded and carely money went thea, then to New Zenland and nous occupies au estanção in S. America. is, begolificatas in body and mind; His

quiet retiring and slow, but ture; good lempered but dishored to bulky when provoked; Biguick and vivacious, toward, acquiring land, and torgettes som o quick tempered a choleric but and quickly forgetting and forgiony (7) they have never been reparated, never treated differently in the Highlest least degree, in food clothy in Exacation, both are and have been exceedingly health, & have good abilities, get they defer as made from each other in complexed, height a mental cast, a, by one of my family differ from any other. Three is a cocate, untileral and difference in height and appearance between there twins than there is between the shorter twice and his jourgest brother a belived the taller twin and his Edder brother. (8) (I have a careful and curious analysis of the prealiantes 1 two twin boys, though their father, which I report much to be anable to quote with profesiet. The one boy is like the good boy

of a stong book, and a born gentleman betile, the other boy is a thorough manvair trijet, withint brilliancy. They are perfect, diffirmly, in appearance) (9) Unlike in body x mind throughout their liver; the case is, I (a brother, of the twent) should think, timewhat remarked, to obtain a larit. (Hen follow details which most berhabs annoy, if guoted)

havis been a sunter the winter the har objects
havis been a sunter the winter the har analysis

tolver that anyther like an analysis

whet their wide to ought teaver become,

anxeccepacy. The first impreprin left by

radin, these cases is winder, whether, nurture

can do any their, all. Their loidence emphalicy

confirms that conduction of the preceding groups

as to the intignificant power of nature combine

with that of nature, and I think whole

meets the objection, white mentioned at

Continued from the beginning of Jahr against had stank in the was Vibroof Attu here Situry transmited set stility. It thew, by it seems I me, that when head of the first that the ferences of numbered the account to hade and the state of the st The steady and petitels murch of the wilden weathefre in our emstatestine, through Much t death, is parafully revealed & there histories of twins, lor are too with to look on illness & chath as strange accidents, Swhereas they weren? manifestalin da bon and regular than of constitutional changes, during at our birth. It must be to, if both living sicken at the same time of distrates that are not Contapions. The clock of life moves recularif on, the governed & internal mechanism. there is suddent heart a estiving of wheely,

the instruct it toucher it, the Mother falls.

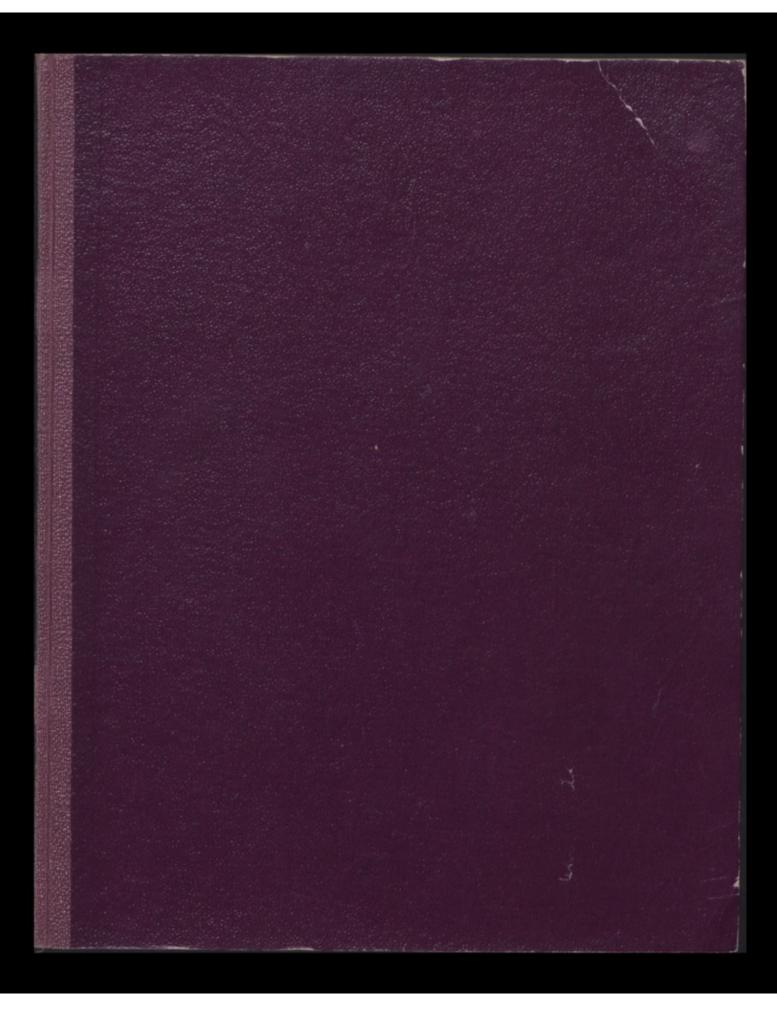
Necepitarian, may derive new argument, from
fact in the life-history of twins.

the beginning of their paper, as standing a the way of
the complete proof of the hered tag transmispine of ability.
It when, as it seems to me, that when reasonable
care is taken in selecting cases in evidence of hered tag
ability, such slight differences of newtone as may be
common to the sens of eminent men, are of no
account whatever.

The persons when you derete for comparison, may be an lived under very similar sivial conviliance and schools of your forment considered in the same sort of schools of yet there are only a small part of these conditions that a mechany that of a conduction in the effect of a vart number of accidental influences, when which the tent bent and succept of each man's life mainly defends. This you leave but of account, and therefore your statistics are the same of the person of the same o

to my evidences has always been " the persons whom you compare may have lived under similar social conditions and been consistent had similar advantages of education, but these prominent conditions are only a small part of those which pletermine success in life. There was accordent of circlimationeer this that disposition and career are the accordental circumstances unknown to prographers a hopeity very numerous. I thuse you leave wholly out of account and therefore your statistics however plantible at first till, are really of very little use."

Their recorded to the sound speak Su sund in the top of victored that their is a subject of with property of view of Coherently so in the state of here of the state of the subject of the war of dentering between the effects of realises martines obteness. I travel





38. M

The case is I shi taink simewhat remarkable for dissimilarity in haptione as well as for strong contrast in character. They have been unlike in body and mind throughout their lives. Both sowing high moral character and strong affections, but not similar in kind. Statue about the same; both delicate in infancy but grew at strong. Fair. Show in mental acquirition as a Sark. Awid as a box in mental boy having been shightly affected by having in acquirition, hypoped I much personal when a child but has since decolloped great about grown at language; alway for hercefters of true prescribes and orders. I multiture life; has been a stoldier for latiness or has always been as in thus. Since el 17. Great aphituse to noder after admitter of beauty is not a nature.

Both waved in a country home and as some schools till pat 16.

GALTON PAPERS

	pare
Cures of both twins being offen ill at the same time.	2
Cases of both hours having some special arthurab	
Cases in which we two had an accident which the	
other had not , consquest diminuterin of resemblance -	6
mental differences between twins who are ontwardly alike.	
Comparison of elder and younger twins	-
Similar apociations	19
Cases in which both twins, being alike, have	
Curiderable vigour.	21
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Case of both hours being often ell at the same time

Scott outs Their general health is clothely alike; whenever one of them has the an illness the other invariably the same within a day or two, and they usually recover in the same vider. Such has been the case with whoobing cough, chicken hop, meather and with a feverith attack which they have had lattery, also with slight bilious attacks which they have the lattery, also with one after the other.

Gane of 1h). If anything ails one of them, identical symptoms nearly always appear in the other. This has been singularly vitible in two instances during the last two months, thus, when in London, our fell ill with a violent attack of dysentery, within twenty four hows the other had precisely the same symptoms, assumilar coincipence hows the other had precisely the same symptoms, appearing the

macrae whilst I knew them for a period of two years, there was himsolum not the slightest tendency towards a difference in body or mind. External influences beemed powerless to produce any dissimilarity. I met them three months ago on board a steamer in stormy weather and discovered that they both were sea sich at the lame time.

their state of health has been always the same; they generally feel hoorly at the same time and have colds be, about the same time.

Som droop", but their ailments were not always similar. Latterly, (the pain nor und (the younger) will observed this coincidence so much.

Jepop When they were children, if one were teething in became attacker ill, the other began two in three days later.

Sheppart as babier, if one woke, the other was sure to wake also; for this reason we used to say "it was more than double trouble."

Watefuld) Their ailments have always been similar; both had an attack of opthalmia at 14.

Forvier) until the age of 15 when one had a serious illness the generally shared any little indisposition, or one followed the other with a few days. They shed their first milk toolk within a few honors of each other.

Cases of both hours having some special ailment

kent). They both have the defect of not being able to come h." olover stairs quickly, which however was not born with them but came on when they were about Oct 20. They were both subject to asthma (which they inherited him their father and grandfather) till the younger was cet 8 or g but the cottacks southwest with the elder had continued attacks? I, since then they have become left trequest.

macrae) There is a congenital flexure at the second phalanger?

joint of the little finger, in each of the living, but not so marked as to cause unsightlines or diversifint.

I have ascertained that they inherited their from their maternal grandmother. Their harents have no trace of it, nor their four brothers and three sisters.

Hall) one was born suptured (and cured), the other became ruptured out b.

we held about set 22, the younger went to reside some with su years in the west Indies; Eighteen months after he had gone there, both his hair and that of his

their round the crown, and to the same extent in again, in each case a latter a white, the thinning stopped; then the younger brother returned the to England and the state of the hair of the two brothers continues at the

mansel we both became bald at the age of 40.

Auxin). They sked their first middle books within a

Lehmann At at 23 they both had toothache and the same tooth had to be drawn in sach case.

Treed their state of health had been much the same and had they both died of heart disease. One however survived the other for seven years, owing at it is considered to his having had by far the left hosperinal strain upon his mind.

name). They were singularly attached and for both being of government cherry they to attached and for come was seized with Brights disease and died, and the other sickened of the same disease and died three months later. (This case is a singularly touching one in its details generally. The father, who communicated it to me, concluded with ia quotation which seems appropriate and just "they were looky in their lives and in their deaths they were not divided".)

Cases in which one twin had an illness or accident which the other had not. The almost uniform result was that the clase resemblance between the twin became thence forward diminished

mastin about 5 years ago, when the twins were 4 years 1.13 old, one of them had scarlet fever; since that time they have not been so much alike

that The elder had the scarlet fever at the age of 12, and grew about 4 inches taller than her sitter. The remained taller for some years, but the younger has now passed her by 2 inches

(ii) The second, at the age of 1h, caught the scarlatina and afterwards the small pay, from neither of which did the elder one tuffer. Since there complaints the second has been a little more excitable and more early disturbed by circumstances than the other, though she is strong and active and perfectly well in health.

Shilliton Their state of health was remarkably alike 17 and quierally wery good, except as regards one illness of scarlet fever which the elder had very severely, whilst the goinger entirely escaped although exposed to the poison at the same time and in the same manner. about out 21 the elder became "engaged" and is now thinner than the younger so that we (the family) know them apart:

Gothy They were at the Same school and were kept in the same clips until the elder was attacked by typhus fever, which was at that time epidemic. He was consequently kept at home for a quarter, and his brother got a class ahead of him.

Sanders (I may mention here, that I have a cake of twoin sisters who were totally unlike in mind and body, but who were both attacked by typhus fever och 16. Its effects whom them were exactly opposite. The elder, a small frail child, had been extremely delicate, the fever completely altered her constitution for the better, and she is now in

very good health. Her sister has large know had been to been to bust and almost hoydenish in dishotiling the fever rendered her delicate, she has been to ever since, and she is now a timed, yielding woman.)

mildred The health of the twins has been similar and him almost invariably good, but the elder in had a nervous fever after she married, which has perhaps left her a little more sentitive.

Philipoth Their close resemblance began to diminish a little gradually, but the great difference took place after the time when the elder one went to India. Of course, the effects of an Indian dimate have been conticlerable.

Fowler The younger at his birth, was 1th heavier than his brother and he continued to be the heavier until at 15, when he became greatly reduced by an illness of 8 months duration

Gresley) At birth they were exactly alike, except that one was born with a bad variouse affection "the effect of which has been to prevent any violent exercise such as dancing or running, and as she has go oron older, to make her more serious and thoughtful. Had it not been for this infirmily, I think that the two would have been as exactly alike as it is hoft ble to two wormen to be, both mentally and physically; even now they are constantly mistaken for one another."

Brandrell.) They were very much alike in childhood (nume. 1.38. - 20 ns anecdotes are given in proof of their extreme resemblance at that time), but during the last 30 years they have become less and less alike. One of them, when a young man, had a very bad fracture of the lig the effect of which was to prevent him ever after from taking proper exercise. He is now stort, while his brother

is thin and of active habits.

wilfel) The younger suffered a little from a red eruption up to his 6th year. (These hoiss are now grown up and continue to be extraordinary, alike)

Robertshaw) Up to the age of 17, it was impossible to distinguish them; then the elder fell off in health and his growth was retarded so that his brother became 4 inches taller than he was. By the age of 20 he had regained his health and likewess but he is still about an wich less tall and not quite so stout as his brother

Wakefield (This is a case already quoted, in which the the aidment, of the twois were generally similar and both had had opthalmia). The elder, when a boy, had a swelling of the glands in one side of the throat. It was as large as a small egg, but is now, cet 29, much diminished.

Butler). One of two adult twins, who still nearly usemble each other, speaks of "no affirmity in

him reached me Enough intormation Cassor of twinis z who relen er, to enable tom conclusioner no by than of the uttances alike that no porch dij the in mary all manifestes itself trone of and the by a relativel ": the that! larger, belles July 11 Ca detesited Naven 52

Witkenson 55

Barrocloy 27

F.IIbr

In 32 cases of twopers who are closely alike in person and of whose characters I propels sufficient information to enable fruit some conclusions. I had as follows:

Twelve " instances in which the disposition and official seconders in themes when there is a grand retemble except in certain particular, at these others which I can be therefore when there is a grand retemble of the first in certain particular, and three others which I cannot end classific. Those

Out one of these is the case alone y great. I where a perfectual exists and in accounted to; the others are "characters truthen but not accounted to the others are "characters with youth his bounds!"

It with be otherwed how transmitted the differences in the severiles leaves of which is the other of the converge, independence of character and vivre city. I greate of left convage, independence of character and vivre city. The weakers is the work who has the least friends it precedent the norse clinging and affectionals. Allow it will be observed, then the two will be two it will be observed, then the two will be the observed, then the two will be the observed, then the two will be two it will be observed, then the two will be two it will be observed, then the two will be the observed than the greater, energy is utually the stronger taller or healthier.

illnes"; but I have not further particulars. Burraelord Meir state of health has not been the same; in

fact she who was the weather in childhood is now the Stronger. One of Them has been in a very delicate state for 12 a 18 months, but their resemblance is not much

diministed.

mental differences between twins who are outwardly alike The 32 cares of twins who are closely alike in person and of whom I have whose characters. I have safficient information to enable just /conclusion, to be drawn, I find there are 12 cases in which the disposition and abilities are cufridered to quoted greeter) where a difference fexists and is accounted for, and the other which I cannot daltify 'viz "character similar but not altogether alike" and "the work show with his head and the other with his hands (the points of resemblance, far outnumber those of disomilarity, Whaten In the remaining of cases) the chifference the things the little of the chiefe of chifferent degrees of energy, than that of different degrees of energy, than the more than that of chifferent degrees of characters was manifested this greater age, independence of characters or vivacity. The twin that excells in energy, is usually the taller stronger or healthier to muy Sules anderstood that a close mental resemblance preory 3/11) is far more vigorous, fearless and energetic; · also the more quick tempered. (2) in gentle,

, Cauce

chinquing and timed. She is a little inclined to be sulky, but is the more affectional

Sisters; - (1) is the stronger minded and more persistent (2) is the more agile of (1) has always been of the greater weight.

Sister: - (1) has great courage which (2) lacks. " (1) has had better general health, (2) is a little the storter and heavier.

If Sisten: - (1) had better abilities to that I frequently used to say "she is a year older than her sister". She has a finer dispotation and a stronger mind. The has the greater table for mutic. (2) Is the more tender hearted and affectionate, The has the greater taste for drawing of (1) has always been the strager.

Sulen: - (1) has the best nerves in riding. (2) is find of flower and arranges them with great take letter in nosegays a dried in a book. (2) is rather the taller and storter

Enter Sisters: - (1) more ardent, (2) more calm and gentle

more elegant; Sharp, critical and find of reading.

2, awkward in her movements and inclined to be left handed; more droll; more affectionate and chiquing; more indolent. Animals are more (2) is stocktly the larger and the heavier.

attracted by her than by her sister, things both are find of them, - and are more pleased by her touch and notice.

(I should mention that this is one of the very few cases that I passes, inhich I have classified as being like in person but unlike in mind.)

Continue Caster Jun f 16

Mich Brothers: - (2) more independent, original and buf self-contained; (1) more querous harty and orvacions.

2) is larger built, and more strongerphy siculta, thered.

is the better mutician and a trifle stronger in

athletic performance.

Lehman Brother: - (2) is the more vivacour.

and Brother: - 2, has the more mental power

he had much the best temper though he was much the less thought (of others). I, was the graver in boy hood, gentle and more even shirited.

He is slightly the taller.

perament (1) has a simewhat more lively lemperament (2) Suffered a little sep t his bit year from eruption

Potentia Brother: - u, a little the more boisterous of

have Brother: - (1, Independently of his protession,

0

about ..

7 16

he became a liberal, his famil, being all staund, conservations.

His head was larger than that of his twin brother to whom, notwith standing that their holitics are at the antipodes, he is stated to bear an astonishing mental and well as bodily resemblance.)

Info Brothers: - We one has become rather more luxurious than the other and more particular in his personal appearance.

Inte Brothers: - (1) works most with his hear, (2) with his hands.

U) is now the taller

Shopers: - Their characters are similar by not altogether alike

Greeky Sixters: - (Case already quoted fr. of a difference due t circumstances) & has the more decided character, is more serious & thoughtful, is finder of children.

Sent Sister: - (2) has the organ of wit more largely developed

Comparison of elder and younger houses 10.

Among those twins who are closely alike, the difference mich as it is show, that the elder is highercally the finer (taller stronger a heavier) in 13 cases, the younger in 9, and they are stated to be exactly equal in 14.

Similar aprociations F.20 Same remembrances. Entfile) The association of their ideas was uniformly the macrae I have frequently noticed their individuality of hurhore and detire of being and acting in concert manuel I should certainly say that one association of ideas is alike, as we often make identical remarks Tepop) They do make timilar remarks at the same time Oldham) When young, one would begin a tentence and the Wateful). There was often a coin ciclente in their afrociation of ideas, as them by their remarking upon the same subject (at precisely the same mornen Dand by their teth commencing to sing the same sing,) mildred apociations the same.

Barradord Officiations of ideas similar

Wilking affociations and remarks alike

Roberkhus (Similarity of afforciations is shown by the following). A few years ago (2), being at Glasgow, bought a set of champaque glasses, as a surprise for his brother, when he returned home, let the same time, I, being at Braiford, bought a set of the identical pattern, for exactly the same purpose.

Cases in which both twins, beig alike, have

(red) In their boykood, both had very high shirely; in their youth they were porverful and active, and especially proficient in what was then called, "the noble art of self defence". They were also arded politicians and liberals.

Raven Both of them were excelled cricketers; the one "all round", the other a battsman.

Philips Both "duffers" at cricket.

Robertshad (Decidedly vigorous; irrefressible)

Oldham Both fond of athletic sports, and nearly six feel high.

Homer Similar and considerable howers of athletic

Forter (Both take much exercise) Their height are

Lushington (Both have achieved & considerable official hositions)

The following refers t livin sisters:

they are very comrageous and ready to any athletic exercise, they were famous at foot bull and now skate very nicely. They hafted the Cambridge local examinations, the one taking the only first cluft of her year, the other, one of two or three seconds.

Comit Can walk or swim with the same power of endurance; both have coon several prizes at the cultivities school of art.

mairae Their physique and their every developement seemed alette; equally robust, they could undergo the same amount of futique.

milou) They were quite equal, and I believe they were superior to most of the other members of the family; they certainly attained to a greater age (79 and 93).

Jepoh) They have equally good use of their limbs for running, dancing, riding and skating

Shillitar They had Similar porvers of athletic performance of as in Swimming, paddling a canods, skating ".

and archery

Hewell They are both very intelligent and full of fancy.

school contemporaries, that my brother and

I were complementary, so to speak, in point

green Ca Boilmore

of ability (greens and disposition). He was contemplative, poetical and literary to a lemarkable degree, shewing great power in that line. I was practical, mathematical and linguistic. Between us, we should have made a very decent sort of man.

Hope

Singularly unlike in body and mind from bubyhood (1) war of a placed temperament fond of mathematics at school, prudent and careful; went to College and became a clergy man 2, Sanguine and find of claping at school; open handed and careless of money; went to sea, then to New Lealand and now occupies an estancia in B. America

lognygod

bery difficultar in body and mind (1) is quiet, retiring, and slow but ture; good tempered but disposed to be sulky when provoked. (2) is quick and vivacious, forward, acquiring eatily and forgetting som; quick tempered and choleric, but southly forgetting and forgiving

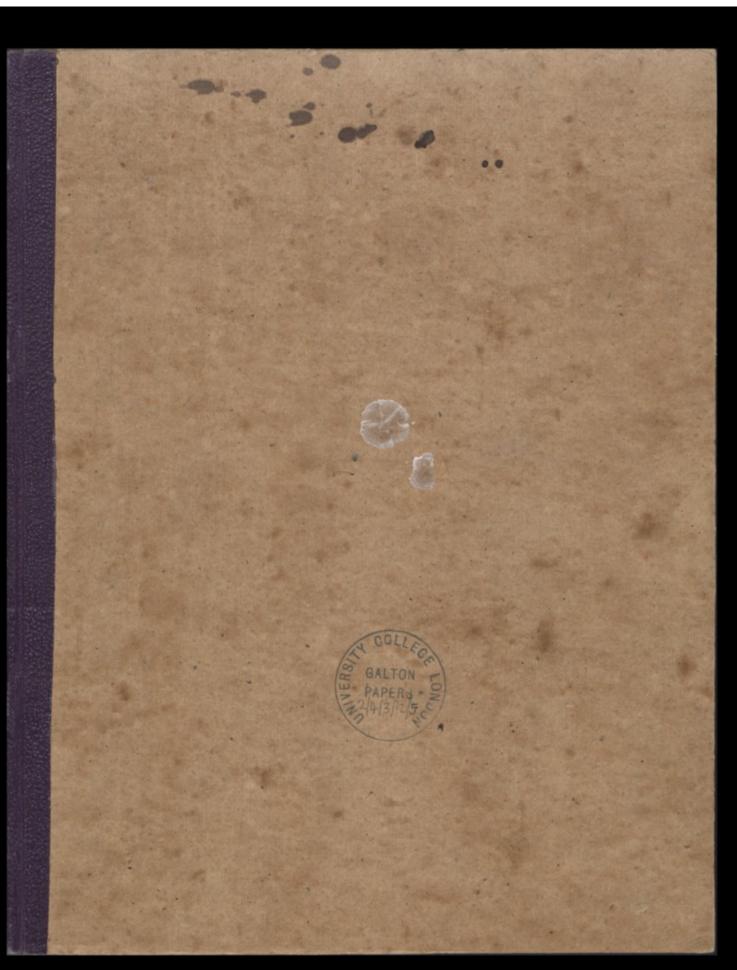
Ereen)

They have never been reparated, never treated differently in the least degree, in food clothing in Seluculing both are and have been exceedingly healthy and have good abolities, get they differ as much trom each other in complexion, height and mental catt, as any one of my family differs from any other. There is a queater unlikeness and difference in height and appearance between these twins, than there is between the shorter twin and his younger brotter or between the taller twin and his elder brother.

Bodingtin (I have a careful awalyris, but no munary which I can quote, of the peculiarities of two twin bogs, which appear to be diametrically opposed. In character, the one twoin is amiable consteous intelligent and dimestic. the other is singularly the reverse. They are something difirmitar in appearance)

Whitting

Unlike in body and mind throughout their lives, The case is, I should think, somewhat remarkable In diffirmitarity. (then tollow details, which I do not quote.)





addrefiel of "190 Twins in which both children lined the at level 3 years of. In a large perspection of the remaining 260 families (200) one or both the tomis died Early or in other cases the addrefer were either all grains or have not been foreserved."

750 Circular punted; about how posted total circs received 159, from say 125 correspondents

or I with the circulars. but many of there were handed to heveral people a time even heart to herrous who had expressed a with to have then

refl & 5 or 5/2 circular sent & person of whom I know nothing, appears about the proportion.





QUESTIONS ABOUT TWINS.

By FRANCIS GALTON, F.R.S.

In the course of some inquiries upon which I am engaged, connected with the resemblance between twins, it has come to my knowledge that you are very probably able to afford me valuable information. I therefore take the liberty of sending this Circular to your address, in which my purpose is briefly stated, and the questions to which I seek replies are contained.

I propose to publish the result of my inquiry, with corroborative extracts from the communications I may receive; but the names of the individuals referred to, and of my correspondents generally, will be kept strictly private.

Object of the Inquiry.—My object is to collect data for estimating the respective shares that "Nature" and "Nurture" ordinarily contribute to the Body and Mind of adults; meaning by "nature," everything that is inborn, and by "nurture," every influence subsequent to birth.

The effects of Nature are clearly seen in persons, originally unlike and who continue to be unlike, although they are reared as nearly as possible in the same way; so the effects of Nurture might be traced in the gradual extinction of resemblances among those who closely resembled each other in childhood, but were afterwards reared in a more or less different manner.

It is easy to obtain suitable instances for the first part of the inquiry, but it is only among twins that they exist for the second.

I have explained myself more at length, and drawn provisional conclusions, in a work just published, "English Men of Science; their Nature and Nurture" (Macmillan & Co.), page 12.

I take the opportunity of asking other questions, which relate to Heredity. The *strength* of the hereditary tendency to bear twins is not yet ascertained; neither is it known whether the tendency is transmitted *equally* by the male and female lines. If my correspondents will kindly reply to the questions about uncles, aunts, and cousins, they will give data to determine these matters.

QUESTIONS.

- ** Please address any communications with which you may favour me, to Francis Galton, 42, Rutland Gate, London, S.W.
- (1.) Names of the twins, both Christian and Surnames? (It will, I trust, be clearly understood that no names will be published. I ask this question, to guard myself against entering the same case twice; to avail myself of corroborative evidence, if it should reach me; and to learn whether the twins are of the same sex or not, which is a point of some interest in respect to the frequency of strong resemblance.)
- (2.) How far were they alike, in body and in mind;—in childhood, in boyhood or girlhood, in youth, and in adult life?

(If they were never very closely alike, the questions 3, 4, 5, and 6 must be disregarded.)

- (3.) If they were closely alike at any age, give anecdotes to illustrate their resemblance; showing for instance, that near relations frequently mistook them. Test your estimate of their likeness, by considering details of it, thus, Were they of the same height and weight, and were their clothes of the same fit? Had they the same colour of hair and eyes? Had they similar powers of athletic performance? Were they alike in manual skill, as in drawing? Had they similar handwriting and intonation of voice? Were their special tastes the same, as for music and art? Were their dispositions similar, and their associations of ideas alike, as shown by their frequently making identical remarks, or by the same recollections occurring to both of them at the same moment? Was their state of health the same?
- (4.) Up to what age were they educated together, and in what respects did their education and pursuits differ afterwards?
- (5.) At what period did their close resemblance begin to diminish, and in what respects did they grow unlike in body and mind?

(6.) How far do you ascribe their increasing dissimilarity to the development, in due order of time, of the qualities they had at birth, but which had lain dormant, and how far to the effect of external influences?

HEREDITY.

UNCLES and AUNTS :-

- (7.) How many Uncles and Aunts had they on the Father's side?
 Were there any cases of twins among them?
- (8.) How many Uncles and Aunts had they on the Mother's side?
 Were there any cases of twins among them?

Cousins :-

- (9.) How many Married Uncles had they on the Father's side? How many children had those uncles (including all who may have died in infancy)? How many cases of twins among the children?
- (10.) How many Married Aunts on the Father's side? How many children had those aunts (as above)? How many cases of twins among the children?
- (11.) How many Married Uncles on the Mother's side? How many children had those uncles (as above)? How many cases of twins among the children?
- (12.) How many Married Aunts on the Mother's side? How many children had those aunts (as above)? How many cases of twins among the children?
- (13.) Can you give me the addresses of any persons known to you as being themselves twins or nearly related to twins, and who you think might be likely to respond to this Circular if a copy were sent to them?

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QUESTIONS ABOUT TWINS. f. 1e

MAY I beg the favour of your informing me, whether in the course of your experience among the insane, you have met with any cases of twins suffering under the same form of insanity, so alike in minute details as to be comparable with that which has been described by a well-known authority, Dr. J. Moreau, in the strange account that I have translated, and given below?

The motive of my inquiry is partly, but sufficiently, explained by the enclosed Circular, which I am sending to twins whose addresses I happen from time to time to learn, and which has already elicited numerous answers of great interest.

GALTON PAPERS

FRANCIS GALTON,

42, RUTLAND GATE, LONDON.

Extract (translated) from p. 172 of La Psychologie Morbide, par le Docteur J. Moreau (de Tours), Medicin de l'Hospice de Bicêtre, Paris. 1859.

He speaks "of two twin brothers who had been confined, on account of monomania, at Bicêtre. . . . Physically the two young men are so nearly alike that the one is easily mistaken for the other. Morally, their resemblance is no less complete, and is most remarkable in its details. Thus, their dominant ideas are absolutely the same. They both consider themselves subject to imaginary persecutions; the same enemies have sworn their destruction, and employ the same means to effect it. Both have hallucinations of hearing. They are both of them melancholy and morose; they never address a word to anybody, and will hardly answer the questions that others address to them. They always keep apart and never communicate with one another.

"An extremely curious fact which has been frequently noted by the superintendents of their section of the Hospital, and by myself, is this:—From time to time, at very irregular intervals of two, three, and many months, without appreciable cause, and by the purely spontaneous effect of their illness, a very marked change takes place in the condition of the two brothers. Both of them, at the same time, and often on the same day, rouse themselves from their habitual stupor and prostration; they make the same complaints, and they come of their own accord to the physician, with an urgent request to be liberated. I have seen this strange thing occur, even when they were some miles apart, the one being at Bicêtre and the other living at Saint-Anne."

He leaf - States tion of Cinculus Sent ancostes of mistakes - extracts 12 detto hummarised for book 42 Pabulated replies 64 Result in a Small table 83 ms to both 91. atrod from Lewer Mitidage 107 Elvast about firm Haveous Much 109 11 definite illouf 115 Extract contrasted of that ten is twent outward alek 121 afrociation of deas time taneous remarks choring Macenta. 134 taker after relatives: verious notes.

GOLLEGE SON PAPERS ON CONTRACTOR OF THE PAPERS OF THE PAPE

gurls closely alike Dispositions Barrachung 30 1 × vigorous energy 2 doles Cane Cotto ld (rever by)? Cornish 25 2 17: is (teg Davey 32 3 Hull 18 V. feutreson up t 58 ~ Lepson 7 variation is 2, better abotatus exact alite martin Gact alter New the (see Pagel) adult so wonderfuly alike that about no one of ever distingued between them Scott adeane (w. Struly 17 "as long on they lived they were in long thing secured to Cash other" Edgecombe Ploke shift. " So rend alike that they in scarce be distinguisted spart beg runch dake to person & constant unotaken Syker very sky. Villeir adult extremel at he in the gen of strangers but member of the Suxmore (Butler)) as like as leve plan & Litto . Sitto. boods groningen Cooperly Harrisy on were continually mittatente lack often remarkally alike macrae 16 V believed V remarkable (Lee) Nicholly 16 queto alte hour and the lest i.

Excell that one of them has been to 12 or 18 mouther in a delicate state their likewell is not much diminished B you F free a looking glass ancesote M En whatever difference there is I ascribe it their respective "habere" the with a cerebral natures, so to put it. - Elser takes alle, mother when faunt, avice one replaced, the other because so at hands old. different expression en F child the water rund juggled & referrablance of aust a mother. (Was) dan 618. as afant to were left whiter them after 一大 as the even offer the continued alike thench chancing in appearance. Paat extraction struct afterest F Mucle free is long trued to lay in court has accurred the addictor air of her prosition 9. Butter riefolien never charrelled. while their brothers & history in the respect bury 2 ceause of they and then shiplest lending to often a officerance be. - both have I concernite amed ford M

Show should be some ability F.6 v onune on art. 960

12 Good alike; - anecdoles of mustakes (A · f.71 The nurse one day fed the same one twice over, though she fancied the could hat be mestaten, till the hungry me cried to food Come et set 3. Their nother on you occation dieted one of them by mintake In the other hage
Cobooled at set 12. 11, had t go into the Order Hudz on a black mindy; being his first afterwang offence he was let to the with a content, Gaves the follows winday 2 though to with The study "How is this? (below) Cane!. "Nece Si il wor my brother featheren. Sud was the murvelling similarity of their features. exprepen, voice, manner to that I remember as a chito being very rund purpled and I think, had my aunt level mund macrae So clifted so they resembly each other that the impored whom by them They had their mucic before given at deferent times, & they took advantage of this & decerois him. When (1) wanter e holider 2, would take her place, and vice Herse . In their way they made the truth of learning music toterally agreatly ent out getter into scrapes & quarrely Gröningen Daveg When about 4 years of are they suffered satter severely trung a sever febrile attack and in an especial occation, one

anecoster of milaker (A) Child was given two dozes of medicine, the other excaped her dose - their sick features were so very similar. The two children were only semi-conscious; they were lying together in one bed. a lady seeing them, at h, a few weeks ago, was much Cane She be in last frage arranged at their likeness and made several lorals by sending them out of the room and calling them in again and mistook them each time (compare this with Forter of smi) an amuting instance occurred about 3 years are (at 3) when their mother on one occurrin dieted one of them by mistake for the other and at that time we were in the habit of saying many times in the day, "esterd are Ein"?" They never dissociale the one from the other; and look upon themselves as one. Perhaps one reason who leads I their is that they always sheep together. Hick near relations as father + mother constantly have and do now fact page aly mistake me from the other a have to ask them which is which. New the They were so wonderfully alike that almost no one could ever distinguish between them, and as they grew older they continued atelle white changing in appearance. Patel , stro Their teeth grew alike, they spoke alike a together, and said the same things and seemed just like me person. mes H. Nollect confirmed 4 mis Bailey. "The frequently remarked that when kiffing her livin sister it was not like kifting her other sisters but like kifting herself, physic

V food

7

anecottes of miles. A 16) Firth alike, Continued her own hand, to example" Sheppherd Looking glass anecdote Shillitae hair believed that the chitaren who we have with them the other who will the charten with the state says both. I that a is bo & b is a. The nurse who always attended them having trive me of them a Porvder in time jam, they being found of tweets, changed places and the nurse gave it the wrong child and did not find out her mustake until they total her of it, when the came in great bomble to their mother. Until lately of they were at a ball and defee as they always were alike, it wed the cut amuting to see how the partners twhen they were enjoyed to dance would mistake there and come and claim the dance with are when he was eneaced of the other & had Cared Villeer When i, was engaged, there was a terrer in the family less the lover might not safficient tittingues a be contistent in his tasts. it seemed obvious that the etter of them would have fulled him goingly well as the other though they hid not equally like him. The twin fisters were most closely attached, they sleft loyether and fell as one; their sympathy was extremel close and they were every their

Lady Paskale him girls most awfulg alike

t me another.

looking Mul

physic

marriage

18 Gerts atthe centimen anectolic f. 104
Cobbold Sheeter of two sides and a looking glate mistake
we underborn, Sheeter of two sides and a looking glate mistake
thorner story
townstate

looking dals

Brandreth. I believe there were a good many anecdotes but I can only remember one a listo. (Looking glafi) (a ministre in a rathery train & a friend who lay converted with the military brother theiring restront stand; him smart dreft that he was the chegyman brother

Cobbold : When at school at 12 a had to go int the Gotor's third, on a black hundry; being his first offence, he was let off with a contine. The lottering menty to had togo into the Gotor's thing "How is this? I contined you last week, get me the cane!" "Please Sis it was my brother" "The very well, you may 20". [They were not knowwer closely alike. different colones hais be)

Creed

here betwee the work a monstrate deflect colored hair by

My uncle of war staging at my fathers have and at an Evening

horts the conversation having father a the behavel of the brothers. Cot To

declared he "thould know the one from the other may where, even of they

changed their clother". We brothers glanced at end other, both town excuses

there we the room or my uncle re appeared in my father's large which the

and old fashined clarical cost and sat at the head of the table at fuffer

Cot. To distribed him as my father, or my father, as my uncle to the

rest of the lovening or wishled them good by as made. They

were found of placing tricks on people; complaints were frequently

made to their father of the Head marks of their school (Bory I. Elmang).

The boys world rever own which was the guilt one and the complaints

were rever known to be certain which it was, one head mostly

used to say that he would never flog the innocent to the guilty.

Looking class .

another flogged both of the pertited in ut. confessing which it was . - (another thing of a college freed meeting voccorting the brother unknown their at Newmarket a refretz t be convinced & better; a curren afen. I to the trother. whish be lost on returning & Cambridge & seeing the Twinis together.) When my father was enjoyed to my mother he was setting by her white the war at work and talking ther; my uncle look my falling chair and continued the conversation, the west in talking withing perceiving the difference till the looked up, and said " long its Georges!" 2 other instances are given of mistakes. Who this. My uncle had been a pupil of di Charles Clark, who also knew my father vez well. One day Li Charles feet his head out of a rantevery Carlings window and said called out "at! Creed, I know you, thenich you have got your brothers hat in. at that line my Father work a very broad trimmed hat. Again another instance about a patient mixtaking the clercyman brother with hopkined to come with the controlling woon to the doctor when the saw them together the raid (Fowler en ploty run and the very moral of cach the, cultimen" Tupper. In infancy one was shown a looking club, be at once said it was his brother he saw; the other tid When wie. When sheeping, they used thought their mother who once accused the nurse of paving placed them in the wrong hed, but it was the mothers mitate.

F. 13 F

Mushiace

in interchange till



2 looking class .

thit.

They are now at 12; from their birth I (the father) have ned known them about (the I ought that my knowledge of facer is being defective.) almost loss ine in the bouse makes mistates about them. Their very moment I have been called ont the other worm when their mother was unable to tag in the spirit of the moment which was which.

Lehman at Eittingen the barber out the hair of both, theating that he was only serving me person

Sawford of Kenselves

could tell them apart; at dancing parties they contlainty changed partners without discovery. - Close retemblence searcely drinking but age.

hunsel at 58. We were all extremely alike and are to allies homed so rund to that our obser children up to 5 and h sears old did red' know us apart. On one occasion when I returned from foreign service my father twomed to me and faid "I thought on were in London" thinking I was my brotter; get be had not teen me to nearly Lycan. our resemblance was to great.

Mortliet In school life one was sometimes punished for the other. Anuing seemes occurred as college when one came to visit the other, the porter in our occasion refusing to let the visites out of the college gates, to though they stood bods by tide, be professed ignorance on toward he ought to allow to depart. Comians mistales arose at wine parties from mistalen identity and

f. 14r Moresia

5

boys alike - anecotter mustates F. 15V · at chapel the visiting hother was rubely turned or of the visitori seat to a don and ordered to fent in his surflice and let with the undergoadrules. Phillfolts as a war walking in mount ! a centleman tail thein "I left you in Bombay". (be wer a civilian in Bombay) andriver Robertshow I bought a few year ago a set of Champagne glupes set of the identical pattern at Bradterd t Surprise Lwitt. - Cast married list, but both met the lady together to the first time and fell in love with her there and then; Calvin managed t see her home and to gain her affection though Lutter went sometimes courting in his place and neither the lady nor her parents could tell which was Which - Looking slup anecdoty of both Las & Co tell C from L. and even mir I took Calour to her husband a few days ago, simply because he had feat in a new fait of clother which are tructes todate of L's usual wear. _ Both went t a Photographer Chave their cartir de visite lety Luther having to go on a journely called to his Carles & got by mistake, Calvins, which he interchanger of

F.161 2 looking gluf

anecottes Boyr alike. f-16V considered a capital Whench of huntelf air distributed as such amongst his tread. the mistal Medowalle was only found out on his return toler the told him that he had by accordent got hold flee wring carly. underwood! about asking the way first one asked a man a then see wishow For the other coming who a few minutes after a other the time Questin, made the man quete crop who said I have just told (m' wasefield. In chitobood they were in one occasion at Nosherury Eardens and one being lost the other was sent in search and he now and again returned and was baten to the huloning one instead I him self, and had to afrest his idulity this near relatives present. - trequely walked thom with each others friends without being detected & hich cases have been of trequent occurrence until cute recently (del 29) - . buring their last City days they used torne at the same place, one day at 1/2 part 12 & the other about 2, and it was the brevailing idea at the during rooms that the one was accuplined to rive twice duty. (this morth have been luned teconomical account within scrubble) -

anecorkes 32 Sozialia walters they were so alike about I years old that I often corrected one instead of the other, we were obliged that in deflered neck this to know the Merence batten. a dufente Aten arole between their mother à lieis nurse as two detter of them was, and the mother has in more than one occasion given the one a dory I phyric which was intended to the the, and rewards hunshments have been given under senter erin y their parents & others william of 50 x mire, the woman at the batter at Burglin Umerly they were as like as two. shills. al the of me was late to absence, the head marter always made both appear afterword after clin one went out the army the other to protestators he army one of went to broit of the tutor were out at dinner. When the butor rung the door bell at nocht when his return, I when had never seen the tutor said to o, get under the latte and I will talk turn tuler. The lutor ord not find him out till o laughed from under the lable. I the next year west to vital O at Cambride o in the Stairs Law a ligh carrying a bowl of milk hand I said hallo, when are I'm corny. Gyle autwered

E fin room dis, ofened the door a nearly limbled

down when he saw his matter sitting at the

f.18r Hogin physic

table and his ditto believed him. James ktelegen, & O into the Bengal cavalog & on his way home in furlough visited I who was quartered at Entrallar I was on the sick lest and in bed; I went the billiard room. L- Charles Wellerles the Colmet It 15th came in , saw, as he thought I playing went out in a rige and sent that I but under arrest whereas I was in bed and I was playing which. The orderly brought his book to the Ligh. another line Some years later O was again coming home from India in leave the Ment dod not arrive to some days after it was due I had come at him his warter t occive his brother. Their old mother was very neroons. One morning o rushed in "O mother how ere gon" & her antwer was "no f, its a bad joke you know how anxious I am" it was a little time before o could pertuade her he was the real moon. hos cerriago (about set so) I was walking in the Park with O, a first contin came up, thook hands and look him to I, then a great triend I I came of short o heartily by the hand; but it with know O. I myself last year wanted to him in I's room; then left a note & was going out, a cab door of the door & I shook hand, as I thought with of saying

I have been waiting here to an hour. It was I who had fust come of time Evolist. hise are a few instances; both brothers were well known about tour last year & bundled people mustook them. wolfel they often were mistaken In lack other, In instance they often used that their uncle quely which of them wer R and be wreally took him to I (see Came)

Fowler When 3 nh years old an artist who was taking their portraits was prevented tim having a titting to 3 weeks I on resuming his work, he could not lett to Which child the respection to kenelier that he had in hand, belonged - Wen about the same ace, the of them not being quite well, the doctor called the line, when the wrong child was (unintentially) brought to him & pronounced to be cut well now, whatever may have been the matter with him, and it was not lett the the had left the house, that it was discovered that the boy who was in his mother room waiting tell the of come, had been taken upstain to have his trock changed or his brother left in his place. There hearned to be a sort of interchangeable likewel in expression that East each often the lifect of being more like her brother than him self.

inter diangenth

marked courts

Mei married sisters (but not twin sisters) and they could not easily be tistinguished by their brides.

36 cares

· murringe

A hecdo Wes of nivline F.22V I will select from the To a So communications that have reached me correcerning horis who closely resemble end other wenty four anecdotes Mustrative of their alleged resemblance, and in order to convey a just idea of the Jane number of cares in which blove vinularit is found, I have not except in the one care NE 22 table more than a bight were ancedote out of last communication. They withto him given just as I received them with the trangle change they by letters "Mor N as the case may be "Lase always stebstitutes. treis parents, children a brothers. la work begin with three general remarks on likenely generally ! -

Theor received between to be communication pomcering who closely resemble each other and will select a few illustrations assectors. from the refetier sent me of Their that have been text to see in affectiation of the nearness of their resemblance. I will not conti manthem en extract time had refly unless the contrary be stated and I may has once for all that the tefeties come in all together the manthes conserved together that the tefeties come in all together we few cases from the factor of the tevens of tevens of the tevens of tevens of the tevens of the tevens of the tevens of tevens of the tevens of tevens of the tevens of teve not from the homes themselves, and that I he first three reason ? reference are from observant friends or distant relations. Nevelle Lad lastlake Pubol I have receited between to x. do communications concerning hours who closely resemble we another and will keled been trese a few arecouter illustrations the nearney of the resemblance. In Contrary be stated, and I may mention, once to att, that the communications coop in lover case from thoroughly trooperly sources, some times (time the trovier themselves, setting localities in council but hear frequents time their parents brothers in children. Heating they were so wonderfull alike that almost no me could ever districuish between them, and as they grew older they continued alike though changing in appearance" (Lady lastlate)" most awfully alike". (This is the phrase of

(as long as they lived" they were in sony thing similar to said other, were the strend the sould met be told from the other"

(alter the fabrywent number)

Janes 12

th 16 32

Watton 32

Cane 12 th

an accomplished author, who does not use I'and on and exaggrates expressions) & (Patch) (3) Their teeth grew alike, they shoke alike and In early childhood mustates of the followings: (Davey) because (2) " When about 4 years of age, they suffered totallies tion a severe febrile attack and on an especial occasion, one child was given too dotes of medicine, the other escaped her dose: - their sich features were so very similar. The two children were truig totettes in one bed." I have two other case of their mistake in physicking. 150 a dispute often arose between their mother and their 32 hurse as to which either of them was of and the mother has on more than one occasion given the one a dose of physic which was intented to the other". I have another case of this kind. Similar Cane mentates occur in respect t food(6)" an amusing instance occurred (set 3) when their mother in on occasion dieted we of them by mistate for the other, and at that time we were in the habit of saging many C ... times in the day " which are you." (7)" the nurse one day fed the Same one twice over, though the fancied the corlo not be mustaken till the hungry one cried for ford". The twois are not only aft to be play riched & fed balano to the function whiled vicariously: their: " they were to alike when about by wan old, that I often corrected one instead of the other; we were obliged to put different neck ties on them, & know the difference between them". I have two others

f. 25 Carer of which mustakes in punishment. Internal No left them engl account of a thorist seeing his reflection in a large ruisin as at the the other twin and calling out addressing it the the here instance of an analogous but more marked blunder. Nobestitus (9) Both went to a Photographer Chave their cartes de visites taken. In having & go in a journey, called to his Carles and got harmistate; those of N, which he an ench among his products: He mittake was only. tours out a his return when the Photyvafter told him that he had & accident got hold of the wing carte,". Dez close observation may be insufficient t reallise a difference between twins, when at least when Going, thus 10)" When 3 or Legen old, an artist who was Fordler 36 taking their portraits, was prevented from having a sotting to 3 weeks, and on returning his work, he could not hand belonged " Pators are continual, triggled their "So closely olid they resemble had The that their music teacher was repeated y imposed for by them. They had their man'c lepon given at different times and they took advantage of this tocceion him, when M wanter a holiby,

me came to wint the other; the porter in me occasion refusing to let the virter out of the college gates, to though they stood will by side, he professed iguarana as twick Amigrafer er school flurnished me by twomis aged 55:-

belinion tradermen are or might be taken in ; theresis at - the barber cut the hair of both, thinking they were only me person" again wandther care(16) Faring

lordfild their larly City days, they used to dine at the same place, me say at test half part twelve and the other about two, and it was the prevailing idea at the bining rooms that the me was accustomed to dime daily. (this might have been turned to commercial account as I received it, because there appears to be delicions agrivoque in the part between brackets, which coming as it does, term as action brackets, man seems tell the - tunity of effect is a daily stroke of business was neglected owing to the free advices the formalle scruple of I do not lay much stone on, nor to I can to Gust clases in which mothers mistake their livin children to me another when young, but here is me in addition to those alread given (7) their mother haroly knew one from the other, and an aunt who was much with them still says that the children Gol changed in their bath and that Mis N, and Ni M. " Here are however cares in which a parent has mistaken his child in the years and even in advant life: -(18) They are now set 12. Im their brith I' (the father)" have not known them apast though I ought to Say that my knowledge of faces

Bluthitae)

Iliff

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is defection. almost long one in the house makes wistates about them. This very moment I have been called into the other room where their mother in the Year of the minest was unable & say which was which " The Tollowing within in far mon remarkable o was crown me by the brother of the liveris who were then in middle life:-"Vorder agricaly" Some years later, M was again coming home from India on leave. The ship did not arrive to some days after it was the; N had come of time this quarter to receive his brother; their old mother was very nervous. The morning M rushed in "Oh mother, how are you?" and her answer was "No AT, it's a bad joke you know how anxious I am " and it was a little" line beton M could pertuale her that he was the wal man". As purents mostake their twin chitoren to child with mistake a twin under a aunt for their its parent. Then, a twin nearly 60 years old writes " We were if himself and bother " were extremely alike and are to at the moment, so much so that our own children who to 5 and hogen old did not know as apart", he add proposed Durche have rentired under the fections heading "on me occasion when I returned trom foreign service, my faller turned time and said "Ithought in were in London", thinking I was my brother; but he had not seen me to nearly 4 year, - our resembland was regreat! Here is another

Marie

of a child doubting about its percent: -Care (21) Such was the marvelloss similarity of their features leathern ! extrepion, voice, manner be, that I remember as a child being very runch purysled and I think, had my aunt lived rund with as, I thould have ended by thinking I had two mothers" be some risk of the same twois being always proferred there appears to be some risk of the same twois being always proferred that " when M was engaged, there was a terror in the fame of lest her William) lover mil not sufficient distinguist a be consistent in his tastes; I wered obvious that Either would have suited him Equally, Though they sid not equally like him! down Robertstante another case, from which I have alread quotid (22)"M got married list; but both met the lads together to the first time and fell in love with her there and them. M manged thee her home and to gain her affection, though Never sometimes courting in his place, and werther the lad not be parents could tell which was which." I have also a ferman letter about twin brothers who recurried histen beforeald not Early be dittinguisted by their brider " (note) In my hen I Scurce p. . I gave a Hory as communicated to hat ready a toria brother pulling en his trother dock to a joke it a tupler lable a not being of hearing the family in which we occurred a found thereing

that the story was act much I worth drawn. The very atom I felt at having furth the an incorrect statement, was a magin motion why I undertake this present to very In the well known novel & ras Collins of "Poor hunts Fruit " the blind girl distinguistes the twin the lover from his brother der the load of his hand, which botter does not, but I have a care in which) I was loted of land word the same lady who your look by a security which that who "frequent remarked that when keloing her twin Lister it was not like 4 hus kefting her other tother but like kefting herself , - her hand to example " I have never beard of experiments made & levin thearm whether a dog would distinguish in season between them in which t Scent. Theor bear much infrafted by The Collins, remark " there seemed the a fort of interchangeable theret in expression, that gave lad offin the Effect of being more like his trother than himself" because I have that with corroborated "finious thaterness", hid as there?" a Lady. Tarter 36 Leen Nem (oct b) a few weeks ago, was much amuked Carol at their therefor and made several trials by Sending Vien

morther (Two livings who are closed, alike, in analysis, theis has icharacters point one certain shades of sifference and add "there seem t have marked as theory to the, though to a white when we first beparated the one is to business me this other, to college, our respective characters were mounted we both think that at that time we each ran into the character of the other. The proof of this counts is one or restriction, and is the view we took of matters in which we were interested."

The following case from the attendance of rection as the above of the elver being much the layer child, as they became story, the like there became storyer, though the elver remained the layer heavier a latter, requiring layer clother and Carger

book and clover. At al is the rounter became the little,

and Storter, now at 10. the elder is the taller.

bolfel

Creed

out of the room and culling them in again, and mistook lien Sad time "- 3" by often were mistater to Such other; for instance they often used & let their unche quely which of them was M, and he would look him to N. " - " by much M had been a perfect of Sir - - who also knew my father N well well . One day Sir - - put his head out of a ranteway carriage window and taid called onl "ah! M & know you were well though you have got your brothers hat on. at that time, my father N wore a by broad trimmed hat " - 5" he childhook they were on one occurring at Northerville Eardens gand one being lost, the Mes was tent in blanch and he now and again leturned and was taken to the surfring one instead of himself and had to aftert his identity this near relatives present! It may be tupbosed that when two persons are closely alike, every phase of expressing of the other may be matched by a correspondent phase in the other, but of does not follow that the most common phases Jexpression is the same in bother cases were whenly individualise liter twings his most common phanes of the first that the sure replaced to the left the le phases we thento be intlined to don'the that he was himself and tusped him to be his latter may occur; the preduce expression & may fine place to the one comment of our that is usually distributed for the twin brother and second ; in the proces of development the ex brothers may alternately outstrift, each other by as in the to care that which mentioned the last.

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Conse see 66) Cornish	F	6	Excedingly alike in body M some vigoran	Same	Same	Same	Same	gapes Valifie	me four	7	Simila,
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			(Martty abke)								
ansell	F	9	are not a never wen particular fale				1				
Hewett	F	8	Even ver much alike in book; ver unlik of in character or disportion	lights			Same				
Hill		54	Never very closel alike - the Semilarit was a that of sorter broadway together a not mire	lift	diff		deff.				
Powell			White as babies reared with great Isticulty a great antice in character & shows ten. With rund clike in bod - a good deal at he in disposition				Same				
Thomas 111	F		by send able as infants bet hear cover of siderents. In is much taller a mentily brigiles								
ر٤ ا	F	/.	quite unlike. taking lesse alway after falter mother				diff				
Dolberg he 6.5	F		cloudy alike in bod; defluent in suice								
9 Gritfith	F	4.	alle in tacter health & in character but who been to the infeature, as to be neighbored when together.				lbeat's	1			1
		1									
		-			1		-				

F 35 c 艺 56 not states

68 f.35v	Sey	age	General Statements	Height	weight	Petriler	Gelow of	Mospin	affetes	handersety	boice
Dovor marry Try	F	6	Unlike from the first in feature manney chargeder are takes after mother the office of the fallond one after material or mater	both hall			8.4				24
Garkell # Holcombe	F	abelt	Unlike in body & ruind - Realizantes in both dealthed about ace of beberg. bey different in ability a risportation		area	40	enla	he	n res	ralt	4
- 1			Singularly untike in body a mind from babybood in height 2000ce female but a books bishooting conte to ferent. Out anger her a to bey or ferent.		Sacret		dett				Same
Redform				diff	diff		dill				1
States 5	F	15	in least . Not alike wind, o have never been so that it of of or wind, o have never been so	84							1
Wynyard 12 Fermand	i t E	9	very desprimites in body a ruind on lake alle falle, the other after mother	dett			dett				,
-13		/	be of Heent in height strength and chace and aftetake; but were our at he when small								
bee To Menteria C. 2 Bee Cane Nobrain Variabil											
logosin			COLLEGE SON COLLEG								
			Wn "								
			A STATE OF THE PARTY OF THE PAR								36.1

Soft minister of markers f 36r 7, ·V GALTON PAPERS

70	Sex	age	General Statements.	Heigh	Lie on	fr 1 clothe	Cato of hear	expression.	attletic	handrouty	brice
arnall	M	18	begrund alike in body & mind but are attering a little in book (some Exercis age)	Same	Sac	Sam	r Sam	,			
Brandelle	M	62	begrund alche in cheldhood & couth have become fels es in seed to left . Falter, said May had one me sel of tham beliation that (" meaning musticles made	Same						alike	4
Buller	M	53	one set of their between them (? meaning mustinged not alloways remark all he mentally x felig so only sol one look more able his falte a the other allow his	(4)			-				-
(he sheater of a seron	£m.	alst	allevage much allke mentally apply is called one look more lafter, his fatte a the other after has paternal and mentals his brother, for hum; I never be any though furthers to rend aleke,								
Cobbold	M	23.	From news considered them particularly aloke landstraves constant surstish orwar more life his fact	1			Sitt.				
Creed	M	elder	allongs white in body - Some diff? in dishoration		unt	guilt	t Sam		Sauce	Litt.	Sugar
Fargular			lacre extraordium alche Cartray								
Foroter	M		loere as by extremely like now thou who know they well do not mostlete. mentally there is never	nol su	E		Suicto		- F.H.		4
Supply	M	20	bez alike in body & rised.	Jeff .	Same		Sam		abor	(Song)	加
Hoan			rus Both veg mudather a court stupid.								
Hall when			always ber much white in body (his there are		STE	Same	Sam	,	Same	TH.	elite
Thiff	M	boys	Earld with distinguished except & close								
by Litto . (Cleshon	M	13	by much aliter in bod; not in A'sfronten								
Ilittarilin Son) M	12	by undality, but home minior differen	near	Great		Sara	sam	Sauce	Social made	day
Landtur.	1/1	abult	by much alike as	Same	4	lelia	ung	fa	ance.	C SCA JOH	alike
Lehmann	M	73	by closed atite from Sail intang in it now better aments I the's	Sau	differ	same, Madeli ii Com	elle	Same	8.7.	Samue	i,
Lawford	M	55	Exactly alike in all - close resemblance scary				Sang		好		Lang
Luthangira	M	43	by cloud alike . is back a mind	swife.	Sany	Same	San		lergel de Same	and men	Leave
maniel	M	58	always Extremely alike in bod mind				Same		mund the Son	2 lift	Season States
mostlich	M	38	bellevant Alverrely alike in body mind boll books to described closely in mind body & disposition	Sana	a little		Same		a little	Seff.	Staren ?
Oldham	M	adult	Cloud which in minder book a min)						mush	ver	San
Millholl	M	34	Cloud when in mind a book a mind bey much at he wish theriod of Separatences, berg much alike in booky a mind their how	g Sun	Son	Same	,		Sauce		1
Rasen	M	33	berg much alike in body mind their how	sticy	Horas 8-4	1926	Same			Sund Sund Car	very
23 tec over				· u						lar	-lar
		100									

72 \$.37v	Sex	age	General Statements	Height	Sige of Waight	Fit-of clothes	Colon of having	Oxfrehin	articlic	Hand willing	Voice
Robertshaw	M	44	Up t 17 inferferble & Fishinguish them	I wich	Somen LH	Ref	alik			alike i	alete
Roundell	M	2	Evently resomble lack other in body & min								
Sautome	M	abull-	Much alske throughost	1 graph	25/1	Same	Simil		ahk	Sini.	Suri.
Thornely (1)	M	43	always much at he in boy (somether ruind)			4					
(2)	M	46	(and Enough to so by)								
Watefield	M	29	In features by acts alike (time minor difference montione) - For thorstown left so. bey alike about al 6. Some differe wildinger	Calch	te hal	2012	eine	leg	Fo.)	mli	le
Wallers	M	20	by alike about at 6. Some differ						,		
Watten	M	6	dikensh war ver great - Some Affer	Same	Siff:	Same	S				
, botherm	M	50	alike in sony way.	about	clan		Same		begu	unel 1	66
Wölfel							Same				
(Lether tre)	M	ha	Rute alike is body - & veg mud to in mind. The huntermone what								
Bheilegel 9(1)			of exceeding alike								
Dickenson Gaskell R	M	43	hor vy like at birth - Hardy the distingunte in boy how a yearth grows left like in a sult life Not like in many aleke	Sang	2.4		Same				
Hatchinson	M	10	but a Lamit likenell. The rune Similar				diff				
Jagger	M	adath.	Just a family likenel, no sure Society of greens in dickonstan! I habiter laster runch al	Jeffe 3 iii	,		Siff			I.H	mund
Maltheur	M	17	bere never vez closef ables	Sitt 9			24		24	W	Same
					def		2tf		-4		7
6 Holberg	M		Entled quite as much as any two among my clean children - in mind as well as letty close of alike in body - deflerent in ruind		7		9				
Turnbull	M	boys	beg much able exceld that me your factor the other the more talkation - as batters they affi	ene (st	+				alshe	mul alite	alite
							-				

1.33V	-		General Statements	High	Fred S	Tr'12	Catodia	Robulin	athletic	Howhering	Vorte
Boddington			never on closely alike either in body		diff						
			untike in body a mind	diff	dilt						
			unlike word & mind		delf						
Burlin	M	12	not at all alike - are as Africuster as two boys can be								
Even	M	10	not at all alike - are as deficientes as two boys can be great objectivities of though loneated facts alike.								
Heafand	cha	a	Brooking white both in both ruin								
Holland	M	childre	Very of similar both mentall								
Lindley	M	43	Very of similar both mentall approprietly senter among F		2.4		diff				
				24	24					5	
Rhodes	M	upto 13	were relieved above in body in mind on the tests of (3) regarding sink tarily, fail. resembled left than any of the brothers a firter								
			For at all alike in feature, a in character		de	De	u	i	7		
Smith mo?	M	46	From With herfectt, It printer in								
botton	M	afa 6:	Current deferent in body a mind from								
Forman	M		Current different is body a mind from their bith - Scarcely even to the min hiter the one to the other - were complementary to speck not at all at he								
Whitting			Unlike in body a ruind throughout their lives								
Tu			live, "								

74		2	BogroGirli (au torti)	lh h	well .	the,	2.3	Him	200	南	130
. f.391	t again		General Hatements	Heig	lue	At Cat.	exter heir	espe	ALIK	hard	noval
arthur			Singular of untite								-
Belfour	1		were more the least alike								-
Beaument		10	ber watche in book & ruind excell to the first month to, wake sucred tried it								-
Bell	bg	6	less alike to kined but Stranger see a family	8.7	Here.		Stx			1	
" case &	, "		Items fam. Thingh not ver stroken							1	
,	69	13	Closes atike in inferner bince have correry definertary are more afternes to.							1	
- bolberg	62		are althe, thywork o mentally						-		
Harwood			a distint family where							1	
Herford	69			1						1	
Kempson	~	21	Exceeding white tests in bod a mine we recommended to brother a reflection of all in the testing of all and appropriate about the second of th							V	+41
	69	4617	Aug not aware fang resemblance enter in body or mind.								44,
Lewis			allhe in features but not in body							1	100
		35	never closely alike								4-
			Never closely able							V	+4
			"Lettle can be said at their age"				Jum,		0	0	0
Rickards	69	20	Never much alike in countenance, but Never much alike							~	
Smith RS	49	adal	Never mud alike							1	
= (snaction)	69	20	bed the least alike in body; very beg definition in body a mind, tund	,,							-
				rick							
			unlike in body a mind time birth			-					-
Inman(1)	60	aball	He a Frunkard - she a questionable				-				
Turnbull !	bog		He a Trunkard - She a questionable religious enthus and strand of fewer in aparticles of the portion		diff		Same		- ,	V	-
									X.	14	FF

76 f.40v	124	age					U	Sta) 5		Herch	wicht	4thu	Colour of hair weigh	Exprepare	athletic "	Hungroritz	boice
Butler les (miss Suxma) miss losses		adul		1																
Lady Rastlah 3. Stattors	F	adul								ers	m									
n(7) Baird	F	adul	1	und	risti	ingl	nis	hab	4.											
Los an Fit classes	F	20		bez	bil	Le														
Harrison III Ladies Cropen Pales Stanley (2)		elan afiti 17									30									
Butler Ego (walters)	M	bogs		dit	le a	1 1	livi	- Te	~											
Just Lave Fox 8.8. underwood Ward 3,	M	logh atter	4	bez Be	ream	el é	u. L.	nend	Late	the	Tui	HI	4							
Win 3,	M	ife to 11	ex.	ileps	£ /	keir	m	, h	* al	ike	ar t									- 4
																-				
																			11.	4

78 4.41.	tas	ace	General Statements	Herush	tweeth	Fit of clothe	Chewy,	experture	alletic	Hundrich;	brice
Mer. Lane Fox 13 to Harrison (1) Cripps Winn 21.	F	arul1	I thought then be, like out 13-14, but the love herself disclaims it rather like. Althe in heron but no Sympatt, beles them as & health or spirits.	nein.							
loard 2,	69		never closed alike; and fair the						alster	pad	a and
										•	

80 f.421	Sex	age	General Statements	Heicht	50,50	Flesha	Colour & aya	のるから	Sarah I	- And	borce
Lad Pastlake Rigby (1) 11 2) 11 (3) Porsi 11 4) Mayde	777		no brother & fixter were lock mine white white we mond - nor were they atthe appropriate to children - Event difficultarity. 3 children - 2 at least great I fire land until the outward of	1					ali ke	Jack	a a late
Marchan Fort									U	,	3
Michael Fox B.2	F	adul	touthe or one party the.								
armold on			of lufeet and be in flature of both take but obligation and seemed a physical and the seement of physical and the in lovery particular.	als							
Me Love Fox Stanton (1)			berganthe in complexion character								

Laufe	revolu		Total		Totals	her cents
32		girls alike		Some sex alike	80	61
8		" hartly	9	not not		13
35	4	,	30	Tolif		
8	_	" harty	8			
-/4	2	not .	163			
9	1	Girlabors alike jarty	10	different sex white		36
13	4	" not	17 2/8	told		100
		Total cases received	159			

an internate resemblance, which is equal tomore when have when the twins are of different sexes. The reflections the forby to alter I had classified the variety of no country the numbers in the hundred forms the members in the hundred forms the numbers in the hundred forms that when both wom were forthe boys pag vistances, the proper close, alike, I of being part alike and the of being what inthe; in the care girlighthe rumpers were 41, 9 a 10. lange discrepancy in the Cabe of boy to misreprentation of the free of the free of the said t due to some minuse Now I fight there is a Marce diterepany; the numbers beig 1, 10 and 17. the second this maybe is one 20 to by care of box turns a hold first two sorge 1 6 3-3, we concerning box a good horizing that I account for it is that want from ? The frest is that the birthes of such teoring are and half as comman as we thould expected as four been clearly sheeps to this arell. His to ful his arrunal in a slight defect thate he says the the first born twin may be either a boy n a good and to may the seemed bru hors; therefore there are four possible cases, boy, boy, bog girt, girl-box 1, box and box, 12, box and sint, 31 girl at boy, 14, siel siel. In other words there is me

f. 46 r Cake of both boys, 2 cares of two or of different her, and I care apolitican cirle lor might in our iquorante, have tapliered end of these four cares to have been equally common on which supportent fee in of difficult leger world have been livin as rumeren, as thoog twin is a girl townis However to ke vonten Anne 450 cases) there their to be by no rue ace. Her cally and on the horself from I plant on the train of the from I plant to the train of the from the production of the first one for the first one plant and one plant and the herballe are little of the others. I be the level to the start one plant and the herballe are little of the others. with I have to few by a girl relieves, is, that boy when they are twins are I believe less aft, both of them, to live than when they are the tame her. I the rest the Septent the state to give supported this being for and the very curious free har betite fability of and the very curious free har betite fability. Laster investigations & John Henter on toois foods (mester beautiful on the foods of constitution as influences of the last rester is that my circular artists for many a character artists for the case, and probably the party ali expeciently to them in which the resembline the instance of they went land an ar we leave seen extremely lare in box - girl terris

Iwing birther are more common than is generally imagined for it appears from the losesched of Me autility that about the coal wall that about the coal child birth from the producer with in the producer with the one child in long 50 is a troin, but tobat with what forment is found in both of them, a to the condition ation of attention favorable of ones received for the mirror of both, at laphens that not one half of the cases twin who was to survive the age of 3. he inquiries love sixulated Sunting In Every Non Humann birthes ine is a case of trins, that is of three at a birthe is I know of two cases (air least I believe them to week four be different) in which towns a set of tring what Qualtains are more rare, I out know to not happen to heave heard particular of more than two might be the case of the all lives toutes and in menters case of the all lives toutes and present the property of the property of the house had the majories of the toutes are apt to be weather they are to no means universely their tos Loads Eddin Storoell has End of them a troin sister and among my returns, is that if a well known Elevin wrangles who was a troin,

An intimate resemblance is extremely rare when the living are of different series, as is them to my returns in a way that admits of no doubt. I proceeded to classifying each cane into under one of other of the three heads, - closely above, partly alike, and untite and suddivided there into boy taris, girl lives, a boy and cirl with much pleasure that the returns of boy living accorded by with the grillwins accorded by the return of boy living cloud accorded by with there of girl living the numbers of cloud, abile heights in the one care to 68 in the other, that of pult alike being 8 do 9 and of unlike 18 do 18, but the returner of twois of differents seger but the The boy and girl twinis followed gent a different law. Their number were-closely alike, I case; partly alike 10; 'aulike, 17. Two things stocke in at once, the hapents of few returns of too a girl twin & the great disaccording the princes Hunwith the concerning twinis of obfined heres and the ortacardy of the results derived from them with there desired from living of the same sex; which latter, as we have just seen, bear internal lexteriory & their authenticity sufficiency.

hoir births are less uncommon than is usually suppored, to it appears on obstitutional authority confirmed by the resent investigations of her auxell, in the hart of the Natural -- ... ?, Office that at least we out of long hundred bialtes is a multiple one. One child in about 50 has thereten been a troin and one in tout boothree thousand a trin. But although how birthes are commun, the survival of both children to adult life is comparationly rare. With as in England, there is mud mortality among children and the chance whatever it against any me named child merriving a given age has be squared, not doubted, if we wish to know the chance of two children both her viving the age in question. lequin it frequents happens that one is both of the twin are wealth, protesty from in safficient nourishment from I shall andown & harty perhaps from interest want of shall a harmful prefoures a continctions to They are aft aders, Even among the richer clape, to buffer time inadequete food nourishment in the early day, of their the Nothwistand their there are numerous cares spersons who were on many trains birther havis excellent health where is a selection of a trink there is a selection to the battle of life to prought height their was well who is the world of the first for the champing frequents to the world who is the world. Send to mee the champing frequents

and now a defenting belacher was as I am informed a trin town the two brothers Lords Elden and Slowell had lad of them a two sister, and I have among my present returns, the case of a well known Senior wranger, who was a livin I have heard of two cares (at least I believe they are different) of trins in which all three children were alive pass the age of do. Quatrains are rare; I only happen to have heard two and cases and to have the returns of the of them; in neither cases did they all live. I five thitoren at one birth, there is as I am informed & one of the most eminent obstations the idid not time their remains were exhibited in a bother from all bested in a bother of their al fairs they informant bertied the case watches his office the whenty the chased their the chased their probable here they are and probable there there there there there there there there is the chased their probable here the advantage of the horizonte. physiological collections museum and bired or Probably to a centre or more after we have have the forest x cased to with out occupy an appropriate helf in Some one of our national collections of physiological

f. 49

Probably the a century ofter or more after you who are ready their & I who have written it are papel away buried a burnt at the case may be, our trubstones changed and our names forgotten, that subthating bottle with the permanent interesty contents, took labelled & cured to, with continue to course, to homenent place in trace one of our national

Twing the whole me is a boy a the other a girl are only half as frequent as we might have expected and their is a physiological stack of no tittle impodique Me ansell should both which we might have expected to find and what tothe which we might have expected to find. He say, I the Effect - I shift after the form of his argument.— That the first born of the horis may be sitted a boy is a girl and so may be the seemed born. Consequent there are four conceins varieties of homis— boy and boy, boy ais girl, girl and boy and girl girl wind in one immance be thempth equall these high traces in other words, for one case of homis both males, there are how cases of homis of different sex and one can of homis both females. He fact however their that the case

Tures breed, ere Hente- wanty that barret of jack of all wades elements So I account to the flient of twining they much have less variet, especial when I find the want to war - Ming ences are far to few to few in the controvers they view. we de soped in kaptother to the secondlan to be confined to moderned another whole I find no tige of it fact. Therefore I cincyin 5, the the most probable constem which very senting one softimister twenty are formed. There are for conceivable ways. I, Each over controlly an over 2, one ovary contitute, two over me from dethert hart, of the work of the work of the work of the work over t dubsivist unt too while in the voince . S, An ovam originally tinch nodovody after fertilizations. Q. 9 2 von Else trius el ne la accesate fa - neith Cold doubled gather Eggs - Seeing that brid due ! leave throw that he as hypotheses must in many care prevent. Inthe sure of the start that way the suffer free of the start in many care prevent. Inthe start must be made the sure heart that in these cares the start must be, identical - of so we should have the serie is heravened ... is no must one a strong tran that way in which are the proportion all more that 13? - It seems further that in these hypotheries we it when either great domitant of year of similary accord; tother depose of dealth and All town at the time of its fifting. If the infrederity be an a men medler wither half world be a fair earable of the whole. I don't medical affection and began that is reduct words range in ophorite camps. The condition (Each half of a most words received the world be lettle side court to be hide at occasion a little we that he had be much han a most factions.

as either of the other cases it is fast equally common, weither more nor left. (* f. . of. c.t.)

One into existence in animals which hat strutt but there are some instruction facts. It must be clearly understood that in some filler cares I multiple birthes there is nothing the prolitice of animals, who usualle generall so fax as that a separate that they been derived from a separate placety that they been derived from a separate placety there cases they appears to he has restriction to the independence of sex of the different individuals who are born. It has never for example been observed that the litter, of days have a marked tendency & consist wholly former of the same het. In other cases it tooks very rund on though the country their which altimated determine her, had belanfulfilled before the Sustain of the embryonic unit into two parts. me to Ench twin, had taken place. The bez Cureves fact find delermined (" Hunter (notes) concerning tion foot of opporte sexes fit ist this view. It was

known that in sud care the female alway proved ballen Hunter sought sud cases and directed the supposed female & found in every withence that it was not a true female but an imperfect male, exterior & formed the a female. The original memoris is bes currous and the conclusions of the great and timist have never been controverted. The shows as already observed that the primary conditions which determine sex work and fulfelled before those which deliming whether the offthing was the tringle or double. I am not aware that this Lingular perinaphrotism has Ever been observed in the female member of human how of ophorsto ket that the that they is a wide though errores belief that are of the twois is always Herite. Their is sell the fact, as I had not a few instances to the contrary, revertiles, it before the cases It may nevertile, before in the cases It may nevertile, look out to it. I was turprised theam that from excellent authorit, that imperfect hermaphaodilion was by no means of exception rarity les that cake, were not unfrequently cause beton the notice of those men eminent fract medical men, to whom tod exceptional cases, derived from all England, world its many instances be made known referred. almost.

as to matter of course. It is necessarily to notice a dwidely Tuevalent belief on the that of one of each pair of twin is infertite. It is most certainly not true in an absolute sense as I have instances to the contrary but I believe it to be quite time that howin are as a whole, infertile and little to the population and also that there is an under curious large proportion of instances in which only one of the twin has chiloren. I will returns are not at all adapted for the furtion. a chance if it be alluded to gent again her relieves are chiefly received from parents, whose children are to the most part bogs, or girls, or goutter. The 28 cases of bog a girl twinin yield into material the purity purpose towards settle; the question, of grapher to care of 20 or under, in 11 cales the age is not given a those 3 more are of 2) is waken I do showever among all this unavailable material find me cute There both twin had children. Necurring to the hypotheris that in many cases, perhaps in the sex is determined before the embryonic unit is divided, we find much meening in certain Jud's encernize resemblances and definition which I proceed to explain It must

Find be clear, understood what my facts represent, by five

34

In the most part exceptional case. I asked to those in which there was goed timetarily, and certain the form of the question suggested that instances of good distribution ? would be acceptable (as indeed they for proved to) to may sugge induced have tell although all they had to remark about the nor by difficulary. I could tell how there ourson influence worked together, but I can tell this, in a manner that adoute of us dont, that find so complete an according between the returns of the box twins a those of the Cold hvim as the leave no room for doubt that that the comparison I am about to make it perfects begitting Wir this. I definited the returns out the three growing both twin boy of dother girls, and flowing under the plaint closely alike, party aloke, a wholly walike. adding the senth touther I found In surprise a gratific with much gratification that the tion first closely corresponded; the precise light were seen 39 8, 16 as against 41 9 18 in those of the boy agirls twin where quite different hyphortism 1, 10 17. It is therefore an almost the two latters torses were the same, but the

Testi

1 2: (1+10+17) :: (bruss +24) 1: 20 - (80 + 17 + 34) 2 = 131) 28 × 80 (1)

131

934

917 the first to conflote an according between the relieves of the boy luries a those of the the home at the leave no home for and that the to the comprised on start to make it perfectly legited I with I chafferful the attend to the the graphed lett train loge, i hate girly, an stone Theore the the I blokeful and I there value the peace of closely alitic partly alite of while while about the sent to the total the tre highing a groth with many gratification that the hos find closes corrections the free ligare were 39 8, 16 as agreed to 2 18 18 ligares course 39. 11 1 10 17 . His function as almost the two latter to can were the tree that the first term war only I as aquest 39 and 41

be may therefore safely conclude that som close of sein tant between troine of offents between is the land of the said is the said to as believed, thousand to as believed, to the said t

I find that twins of the same sex are frequents characteried and extrement and extrements of the ophorists sex are not to hard ever about the thing comments of the ophorists sex are not to hard ever about the theoretic sex and the several the sexual through they are offen any untile a self throught. There can be no donot that the likeweper a differentiation follow quite different rules in the according as whether the living are figures are writing of relieve in the texes. That my figures are writing of relieve in the texes. That my figures are writing of relieve in the texes is there by the state accordance of the returns of that there is there is the twin; the total different between there a the figures derived form boy a feil twin's rund therefore it is a real fact a rule, that is call evenis rund therefore a replanature.

uli

The Lewis Physiclory of Commune life Clifton Hereby May much diverties (in adject & differential) are obtered not up between brothers, but between living; and it was noticed in the thinking can of the celebrated Rate & Christian living, who were to fixed to plan that they had only one body and one pair of legic between them, with how beards & four arms, get they mainfested viz different dispositions, and tempers (see Geoffrey l'Holarie, Philosoph: benotion IT and Serves, Reduched and Canatomie brancendants). The same from otheroad of the Palp bury levinis, the Siamere levinis, and of the african thris, recently columns of fixed twins the five Art Milliages.

+. 56v (2) (5)

Calvact ochon firmultaneous illacts prequents rece in most cases thatthe is better bed at mad he same - or organ f. 57r Cane # "If any their ails one of them it has nearly always been the last that plant and sure the other than the continue of the other . This has been singularly constitute in the last two months; they XX when in Lord in the state with a violent attack of or steady again, loth there within 24 honor the other had precisely the same squiplines, (2) the same push meetles, of mently agettes If I were more up in the se book some my survey to water Torner 1 425. "When they were little children we ared to say ... (1) is ailing and Hickor (cel 7) " Their state of health has been always the same. They severally feel poorly at the same time; they have colds be about the same time, Jepit (al 18) In Muli (as chitiren) of one were teething or ill, the other be gay 2 or 3 duys later. I marchinen of the test I know them to a period of two lease, there were ned the thightest leading toward a difference in body a mind External influences seemed horocolep throoner any difficultariz I met them 3 months ago in board a steamer in stormer, weather & discovered that they both got sea with at the same livel. Scott at 15) "Their general health is closely abile about whenever in takes an Much the other intouriably taken the same, within a day or two and they whealf Tecover in the same order his to true of whosting longh, chichen pay, a measter, and Hours with I then attacks, which they have mecepited; also I willed a feour h attack totterdy as baties if one woke the other was bive t wake also, so that in their we remarked it was more than doubt trouble! Forster "They shed their first milk looth within a few hours of each other"

he at 23-4 they both had looth ache and the Same took had the drawn is added

to the many adment, have always been timelar; in encare if of tholinia at the

waterield)

the the second the they cold the being to make a difference on to stowed that the look of her book of the hour lease. 3 to the grant list a their able or others, in a two is the about woods with home in fished true, thele for anderly, at Stock toller setterto wheel the has margared foly on, extract lutter! 25 or they lied but look adie on the issue look he and bee sometary assessed the

illufus on Common f.58r Kent moth life. They both have the defect of not being able to come down stair's curchy, which knower was not born with them but came in when they were about 20 years of ag. The, were both sulped t esthua, which they intersteet hora the is feller and granelfalles, till the foreger was about 8 or 9, but the allack, Continued with the Elder till about 21; since which they have reference by frequent" Murrae). 1. There is a conjunctat flerour al the second pleatungent point of the lette forger a Said case, but not ro marked as theodore cause any letting a desconfit. I have ascertained that they caherited this firm their maternal grand mother. Their parents have no losa of it, mother nor has any one of their 4 hollin & 3 holler Wakefield as 2 th about out 22 the jourger went (+ rosed t the west Indies and I'm gener after that & during his round the Crown of the head to the same extent and Their the Himming ceased to their the thinning ceased to the there were well as in both cases the state of the hair lemanes state and alke Treed middle . Their state of health had been much the way same and both died of heart distance but the week ording to lung was forwing this having far less profesional strain of mind. Leight and died 3 months dater.

Protocol Make the contract of the for men i the first for the self of the stand of the stand of the self of the day the interpreted for less the loss and loss with the between when the week soul so went on the west gransfeller, to the proper exchant 2 : 4: he the black extense testlether the tell stood 21 percention had being the Flyan more to the termina concentrat for our at the decide place week private that the my a secretary, but not in that any Charles land about with a lace lot . There level has that they what the total from the material year has the fine to be a second of mother as he so fine The property have applying to we " he was the where the file of the test of on the heartote / herth last his mark . 2 Serve a both deed of head dilline for ed the other deals about

Cummen Mules de Continued f.59r (Hall) The war born resplaced (a cured) the other became resplace mangel . we were both bald at 40. hot commen tooth Grede bancore veins. Martin 13 Scarlet Lever mustores. Health almost invariable wood het herhole a nervou fever alter marriage may have left the elder more senistive. illust of trasted floor which the elder had very severally ver good, except in one younger entires ed capied, although exposed to the position at the same time! no affirmity in theep. Shill loc Rulla Eufly The closer had had the most thiely (bit her about the Same tooth being storm) Roberts has on as a body had a swelling of the claud on one side of the week means on large or a forward egg - which knows has much discussioned in the course free one tother which the his to be seen with a red or caption wikefield wolfer

the other had not. In nearly ever case the testifican was to dispressed the close resemblance was thought manent deadwayther been that in nearly behind the betweent that is nearly betweent that is Care is which me twois had an allness is accident while Scarlatine 13. D. with bruill levy of with love of hybers 42. (redifanter 22) Neavon feveralle must (14) mile: 51 (also Wakefield) not flates by. 41 Varieure vin 5 Fratures leg 38

Hucher & too duction of defermitant 5.600 fail fever marlin about 5 reun ago when they were A fear old, me of them had searcher fiver, and some that time they have not been to much alike. that at the at 12 the elder had the searlet fever and kil goew about 4 wicher talles to She remained talles to some reast, but the fininger has now profied her ly 2 wider. (... The second when the caught the Smathatena and afterious the Small pox, neither of which complaints did the close, late; and siver their complaints, the Lecuis has been a little more excelable and more easily chesterbed & Circumstances them the other, Though the is stray x action a perfect well in health Should Their state of heath was remarkably alike and remercely Dog wood, except in one Much of searled fever while the Elder had vig severely whilet the other entirely excaped although coloned to the poison at the same time a manuer. Beboot at 21 the clour became "engaged" and is now thinner than the courger, Table few that we know them apart. Employ they were at the same teleost which is the same class wat the law elife wat the war then spidming the war consequents kept at home to a cuester & the trotter therefore cot a class ahead of him. (I should here mention that I have a care of definiter,

god twing who both had bythen fever at 1h. Its effects with the lever exact, ophorite in the too the elder too had been extremely delicate as a child; the fever Completes allered her constitution to the better and the is now in very good health. The gringer had been extremely wobust and almost hoydenish; the effect of the fear has been trendere her delicate ever time, and the is now become a timid, yielding twoman. at the land has not peopled to the secret when the complet the washering on lote; on here bein a splands, the here has been little in its class in the last the thinker Core stars the the the the color a he feet nell in health. F.60 V

who book fad & blue at the are 11h. got hours, in the elder was extremely delicate as a clisto but after attack of the fewer of the age of the her constitution the complete attered and the is now in food health Julite the Gonger for having been extremel robust admost hordering dour theen delicate lair mice & is become a time (ieldy lornan.) herown feres pety troins has been mildred the teath tunders against invariably good but furtished the pad an neroom fever after marriage my had left the elder here benefitive. Barraday Stata of health red to tame & (in colice out) ludia Phillpots. They close resemblance began to driving a letter goaled, the the treed defference took place since the elder west to trade. of corre the effects of an Indian climate have been considerate. I have guoted an instance in which four years service in India had so lettle effect in a twin that this own mitter mistook him on this return, to the brother who was at that time staying houth her) Foroler The runger wan It henvier than his brother of birth 1-41) and he continued to the heavier watil at the age of 15, when he was Evently reduced by an illush of o mouther duration,

Everly at booth they were exact, alike excell that one was born with a very bad varieous affection," the effect of which has been to prevent any ordent exercise truck as dancing or running, and as the has goods which make her more terriors a thought ful, "that it not been to this informat, I that that the two would have been as exactly able as it is federable to live women the both sweath, I plywhat to have been as exactly able as it is federable to live women the both sweath, I plywhat; even now they are constantly switheren to one another."

Brandreth They levin wer extraction alle a children & Think I wan have become top a left alle & the Brand them had a very bad fraction of the le, condescent never bate proper exercise. He is new start and strue clear! While his brother is thin and of action habits.

Wolfel a custing the younger suffered up to his hoer forthe 50 a red crapter (these twois are now with, Testradorum stile)

Mobellshaw Up to the age of 17 it was un fisfer the to sting unt bleen 33 then the elder fell off in health and his brother great is inches that the and like the through the through the through the through the bat the act of 20 the elder brother had regained his health and like each, which will be that as his large was a three both had taffered from of that entered, were simular to the closer had when a water base a swellis of the sland, on one tide of the throats. It was the an large as a small forst, egg; "It is now hunch diministed."

Thirty defice believe the tangen Eirl Council 5 the liver is present to more ingroun I find some females / & cakes in while the & Morition andescribe as identicate very similary I care alvery quotes Erresley when a difference is accounted for a 1 "Character Assectar when wadenat pacticular a coce, or "Character trivile by not altoff the able to information or emperous Hen I find the remainder heart whole of consist of cases in which the of Herence is between convictor simple with the the the the the the world would cover with the finest of the twin have the energy in the greater degree. There of the theat for " the found to the there there the exception of the second that the second the second the second the second to the second the differences fall understood It with the notes son the second the differences fall understood the second of greaters les energy on monifered greate of life comman, indebend of character of wirely the weaker is the charge affection to the wind also be obused that he greate every months and confirmed by her the It taller stonges a health of the local between the option of the last of the last we will be the time time the t

The Stronger & Herency is character uply the history was and 121 C...) I has the bed nerses in riding. 2, is tone of 2, is tom of there a arranger them with social tacke either in notice or obsied in he latter a stanter I tar more vicorous thately cluer -setie - mun quick lempered gentle chinging & liquid in talle, but is the more affectionals. In anthentia the arriver of home concluerous & deflered probles affected. It was generall observed that is writer an offer they look of different fronts a followed out the talked in & Heart Mich ind is office to was 1. 11, quelely a reall a two ahead I held by the taller larger a hear finder Lave, I har goed convace (with belle, I a bette the Henter a heavier greeley 8. Herence of character die t concumblance, (varicate) (co.) Evoryova Hock ver undar Hull taile, a afect alecen exact to have felfrera an above. Histin The Older had better abolition to their 12/Har the greater laste for I frequently said " the in a year older than direction - Vice tonder hended her vitle," Has the greater tate for and affectionate. marke — Hun a finer disfloration one attorney, rained (Har always been much the flourer) 21 always the mod ocite pertent the strate minded & ruger for greater west dentical Kent uncrae 12 (no information) Mailera 13 Mildred Limitar -14 Herakting are curcher she has a mine Scott excitable les perament & a rude healsteer herome organization. Sheliles Characters winiter but not altogether, alike

the of the land their f. 63V World to Late . He Tou The same of the sa Standing the same of the same to look better love a hearing the Sitter in lease of his beliefted to find and last (last of) kiels better experience to the opposite the sea to the first been to be been to Character deriveto, de l'allegation

The stronger f.69 123 more force later are similar & hisporitions a good deal alike Shillitae Tune andent more calm a gealle exen askevand survey & ver runch welvines to be left hundred; more droll mere affectional a cling in and runger a henores Hewelt expended a new ely and in her took bey all in her took wanted and a good a good walker my report - Shirth critical, ruse actions of reading both lend of animal that an unstaffyaded filler wayer & pleased with her love hand 10 cares of Joff a arnall 1) non mental procession is it latter "had out the het of trains between them" Brandrett und abled morally vivor in there Butler breed Now the gracer in boy hood agent 2, Sanguine a terreturn defretes had rund the best temper, though unch left thoughtful Forter a, works most with his head 3, works mod est bis bouds Eufly 42 there to other and particular is her personal appearance in the tallog there is I will diff in Horner 1) Shighth bal resticeably the more 43 I have been always latter heavier whater Chinauca Column wathle proform 2, more vivaciones Lawford 2) the bette, untreveren tand also a soldier - remand conteror Mandel (War a cicilian stuck & x excelled ho in Natural Histor - became a liberal - His head hith larger mosillet. more self contained, original is more guestical that . It same Millerts

f. 65r 125 (see ned pace) Defend the to feel to the fall ber both and in fresh for Mayor By 6 Some short have bedriedler north, their dans thether bottom the word of death of the mind when the since (1)

Mitsfell But Sulfen at a world nearly beet; but ton of athleting but a multiclame person. Both Sitellent drocketen; It ownall some I thather a bottoma Maaen 52 (decided orgoion, mint above to a our ge) Nobeltales

strager force f.665 127 2) more land drawn orb in societ Masen Robertohan With bortleron. v, a little the queder wakefuld (2) has perhaps a little little latter Lecition - h stight wilkenia loosfel 11, has a somewhat more list 2. Suffered a little of to hit good temperament (11 cases/ Barraeland Speciallastes Sunder-Hall Sheeral taster and africontine, exact, I tame Jepon They do make truster remarks as the town train milited apocentions the tower Scott. Their ideas are not Binestus, ner aretter same trains of thought ofdeasent In afrocentin of ideas uniforms the same, and at the fame house Barrachal aleveration of releas himilar When going, we could begin a the other finest a heatence Oldburn Robertham (qualitie, assect to) tookefield affectivitien fideas often Coincided med as remarking when the son the survey of the fame without affect the france of the fame without affection & remarks white. Thurstonewest notice their interior of bustions and Letter of being a coding in long Macrae . The how goest of infeather I feeling is califer; often making identical remark Sheleturd

F.66V a, a little the centres 3 Theres tother a discontinue to really the house They do much town to be the formal in species of clays and the land, in a the hand had The color of when have last

Remoderate Vigoriv. of both twins f. 67 -Francisco to the latter tame process of endurance, both Hull F they are very consuperous and reads they athletic exercise the confement of fort boll a now that very wirely. They properly the fortilled con their took local examination with the one takes the influent class of the other of the second of the restrict to the form father, and resolve a nerver, and extremely excitator temperament, although robust an capable features; and pred book of mental fatigue.

The Rep have equally avoid use of their briefs to running, I ancing, washing a thating Macrae F Their play wrow and their love development feened alike, Round mother of the former the classiff the work the construct of fatigue.

Million F The had muliar ferver of at blibe performance, as in farming, fully best of the not feeling and archery.

Hervett F The not foot were the first the first of the formance of the forma Hervett I They are both very intelligent a text of funcy Creed M he bog how both had beg high steinty both and at fortherious & literage both listore fortherious & literage in the then called and he heart I self defend in fell of the holy (both trake much exercise) troller Similar & considerable person of athlete performance Luchent M (decoded & recental in Ge) M news 6 feel, both four of athlete shorts a rend the lame power

Phillips I both duffer at cricket

1 Both chellent dicheter, It we all row thatthe a balinan Nobelle M Decided vironer, much about accept)

should being being from End the fertilized boun much have a telemente choicon and amount the the there have been whether the derived from one overy or tun both from one frother folicle in from two , son they to will have defende Chorine and amount. Converely of the troins leads boon but a timbe cherin between them (it is a mally of int Henre whether they have a tircle annua a not they must have come form a single over with 2 person shot. In this case where is invariently had and place a the circulator tystem of the levin beter their bill I tand in is much more closel connected then in any

Kleintvächter Die Lehre von den Levillingen. (Prag 1871)

p. 30. In the lase bolethe the fertilised over, dans been bereved

hom me ovarge in bothe, hun two Svaffran follicles in any
one, they much in long case have a tepartie Cherion a

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be only the aumien be the in with) there wite woureably have

be only the below they. In this case, the conculator typeline

I the two doubts produce there in is more closes emineeted

them is any other, and the two twins have come from a

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hird and elsewhere. the possibility two separate ovar ultimately have their plecenter coalescing a charicus becomes thrown into me in discaped their is Kiwisch's were of a common occurrence air produced tromis with a traple charious, much pertented against by sporth (xitters)

Skin - text tiple swarts fair, hale - high colored textim - smooth - rayled warts accidents - never - searly of variety heirs - diseased structure

Hair tint any one of Broces 36.

Then the tent any one of Broces 36.

Then the smooth - crish & rough lank, switt over foreher More - over forehend. book of high

Exe brands. Shape arched meeting fromt, by time - rough having in.

Nose, soul strangt curved larce founds withe narrow

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Externion Shake ! - their, love adherent - Darwins porist.

From the Ereen colly books. Total among doses alike. post 19 37, 44, 48, 49, 57, 52,56 Elder the stronger taller h 2,3,4,5, 12,11,19,20 9+109 41,43,45,46,53,54 Gorner 11 11 11 7,8,21 Reland in fluence of Muels (13, 14, 15, 16, 17 18 14 13/2 (35.) 39,40,50,55 TOBL Scallatina a Small pay , 5, Emplose & Scarlpline 13 Scarlpline 14 nesport fees 15 feet 17. Scarlet feprey 41 not stated 42 typhen 51 typica Smilarit of illness, 2, 3, 7, 10, 11, 12, 15 (40) 54 57 Hydres Taker alle relations. The 12 spectation with sway others among untities Elder 4 (Mollies her family) Father 24 halemal gr. fath werer : falle a heifamis | Palinal buck palement go mollies There are certain of the case,

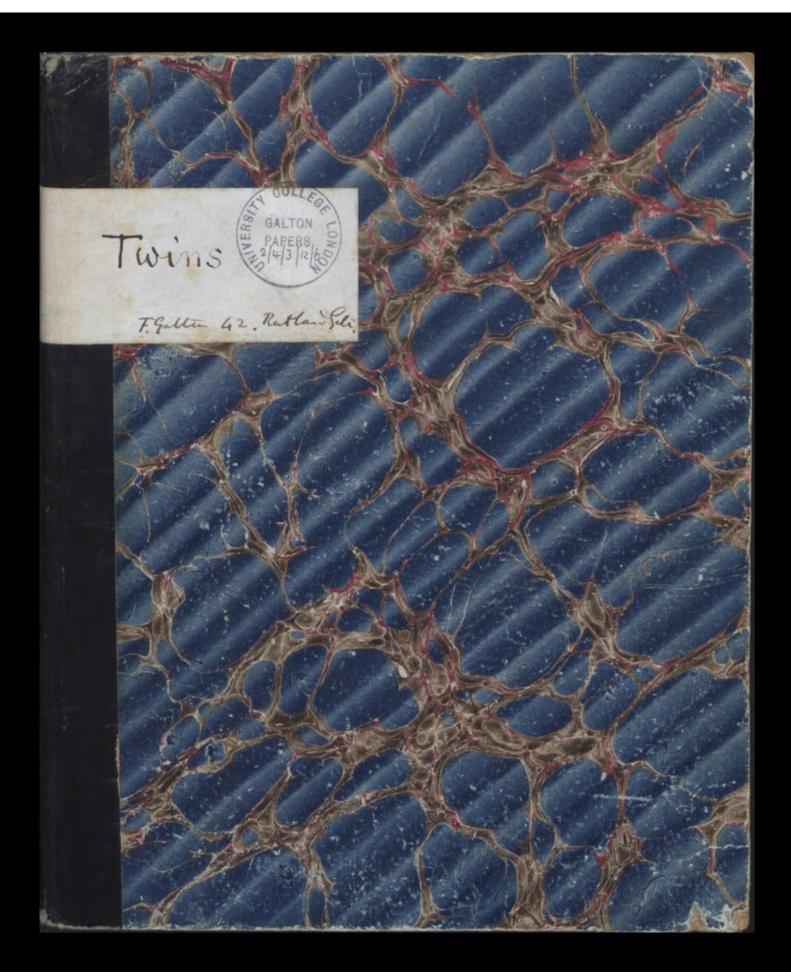
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Additions Feneral Necrtle Patch Log Castlaha Holombe with with municed 2 food pleyore Victura. 111122 (Notistohan conta hi wish! Looking duf Marine Buller, M. Moscin (Fortles) care wilfel Creed Noberlihur the chargeoff mildel Shitdu - Charent Jestrein march , Robertshaw Cordis Shitlitae (changed a bath) that, wakefield, withenin parent to children marrae. Cobbold lawford ... Mers Robertshaw Kroph letter wine to tegis marrae. Cobbold lawford ... Italy wifes theophar's macrae. Cobbold Lawfood Creed wilfels Brandalle Creed Mrs. West Walefull Fowler nun relation estimatificants 7 see Hobber (to Crowtost) (convertibility untities among it likes. him - baked J2 see Lehman (Forter) her Foroler The relations they the features and differential of the client beauth those of its leavents, and curious findical and habital tradencies of a colony, with those of the forestables whence its which there is the forestables whence its interestables to the forestables whence its interestables whence its interestables to the forestables whence its interestables to the forestables whence its interestables to the forestables whence its interestable to the forestables whence its interestable to the forestable to the f The relation in which the features and minimulation in dividual Stand to Those of his percent is currently partial and intruct. It man to the states in which the constitution and politics of an independent colony states of 8318 the States whence its inhabitants love derived. (Take an imaginary care)



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LJ. G. Davey Rightereford

James Day Latory Hereford

New! H. C. Deshin, Last Conteta westling will.

F. Titman light, Morland Road, Croydone,

John Dose Right. Solicator, Letter,

Light Rev. Un Bishly I bover, Contestury

B. C. Ourant Sid. Windton

John Darwen Ref (Surgeon) 120 Bath Now Bermingliang (by W. Bodington)

Surham End (Lambton Cartle Burham! see Sombton)

Mehr Detmar at Mehr. Nothschild res ch S' S'Switten's dane EC (see ante)

The Come der Hall's letter

Ned Lo. Downs Baylham Nectory Through.
Ned Monias Delatin Cobiedge Barrlen
(Ned A. Walter)

V H. H. Vickenton

Mr. J. a. Dickenson Gonaghouse, Co Tyrone Irelan)

X Und Gallison Cobridge Stoke in Treet UND Sevitt Lee Terrnee Upper Claplon (Muly Kent)

D

Joseph Egallon brot. Cosely Bilston
New-A.T. H. Evans I l'Eurger Chambers

albert Square Mancherler

Evans J. Hertlord Herts (is one of 3 who coewash)

George Edgecamber Sich. Keynsham near Balk

* Eastlike Lady 7. Fitz Noz Square

2. Ede Rof. Southenpton.

(New Engreen)

Wasseley V. Wottincham

(New Small)

1. Failer Later Ind. near Wirbeach (G. New- a. Bell)

Mes - S. Farmer S! martin's Colchester And Colone Fielding Land 39 Princes gate Browley Foord Sel. Blackheath. J. Forshaw hof. 9 Cannon V. Prestin

William Hugh France by archall b. Inversely

Delward Try 5 The love Hirugate.

Fraier (der Clark) (F Linden) Horolev Herry II Knoth Green Wood ford.

- Graham Int. 70. King I! Witton Park Darlington sissette & Red. T.B. Barraclongs In Gastell hof. To New Square Lincolny Dung Highester (4 9. Darwin a rather to Inchown) "North Hotel Highester Nev. E. T. Geph. Chelmstord. Nev. E. Gillson Longborough I g. Gibson ly. S. thing bourne Keak n. Girdlestone by 57. Priory Road Kilburn. Neo-S Gornbertz newton abbot Georg Nev. N. H. Evant. Hitcham Puctory Suttoth Nev? 8. P. Even Complon vicuage Build (8. N. Grenbrille And with Butleigh, Glastutury 7. Stoles Gupper, Sit. Falmoult H. F. Gordon Red. Oak Hill Stoke upon Trent (4 Nev. L. Mortliet) J: ohn Sill wen Shroffshire W. John Graleam School Hotel ackworth Pontetouch Nev- L. Gamsen Normantin Vicarage Newark

Mili S. Gillson Belmont House Strond Gloncestenhin

Holbrook Gastell Sefe Woodten Wood near Leverfood

Mc Holland (Liscard Vale New Vszighlin Birleakea)

Evodowyn Evodowyn Sef. Franklinghom Saffolk wetty wen gloenegates
(his rephens Pierran where in Holden's schooled the letter metty wen gloenegates)

A Hose Greekey Meriden Lodge New Kentworth Ne Learnendon

J. E. Gibton by Cower Ith floodil.

Mich Guithites Clapton Source Clapton

Mich Guithites Clapton Source Clapton

J Galley 8. T. Stoles M8. Falmoult

Holbeche hur Vincent Sulten Cold field (4 M. Bodingtin)

Hill. Thomas ly Mentury Briston.
In her: W-Dale

& Nev. J. Winstander North Willskham Newark Ferenight thantal fish a than toute up wittenhall F. H. Hartshom El- Md. Brosely Salop. H.C. Harvey Ly. P. John's Chamber Newcastle a Tyre Neo- Montaga Howker Rempton Sherborne Nev? T. G. Headlez, Petersham Sw., 7. a. Helsdin by Mo North Walsham, Norfolk * Nev-George Hill. South Winnow, Comwall Evorge Fredrick the. Carditt. Neo William Ul Hind. Timer, Wattord. Med- Nichard Holmer, Eldersfield vicarage, Tew Lesbury Ned W. W. Howard. G. Barries Crescert, Exeler S. h. Hoyle Sed. 123. Cannoh P. E.C. * New-W. J. Hall, Holbrooke Shooters Hill. SE Nev- N. M. Hullon, Barnet Nectory Herts. Nev- George Hill . Hall School Sandorland

The Ladz Eleanor Heneage Hainton Hall Wragby Livestuckie I New T. N. Hutchiary (James Withon) Galten Huffenden by Surgeon Kennylin.
George Huffenden by Natural dett office. mof Hulme 161 Hord V. Greenhers Munchester Red - Noel Hill Berrington Shrewburg (W. A Leighton & Succeptale Shrewburg) I high Nose . S. Hope derby (me wordett without) I hor Horner mells Rectory Frome XW. H. Her ford Six. BA. (?eacher) Fallowfield Manchete Bernard Harris Pr. Surlitar Sis William Heath cote Bast, Hurstey, Wirchesler Wir Herbert waford Partswood Hauf Sin Eura Heweth But. Hurstoole Shere Euitful

X Profesion Humphre, FRS Cambridge

Salbert Jagger 24 Barlow f. Handroorth W. Birmingham
Ly J. King Mortlist . Lozells Birmingham
(4 J. King Mortlist) * Thomas human by MID. I byoyan Terrace Clifton Bristot Nev- W. C. 1zart. Shindur. Safter William Incolor by 41. Norland Squese. Nothing Hill, w M. James Rod Manrost. Dentighethere 7. B. Jennings Ind. . Iptwich. Nev? I. Johnston. Huxer, vicarace, Barotrey. Henry Johnson Sal. M.D. Sheevebury Nes? F. Jones Moretin Ponch. Banbury hes? J. S. loves Heneglays anglesen I love Suf. aberdare Glamorganthie Watford 5 Indsleigh J. Tavistock Squire n.S. Joseph Ry Nev-Win Jendurne Chichele, Newhort Paquell, Buchs tu lichenist) I mor belish . 3 Babrington Villas . Pear Tree Desly I lift & nev?) George. Hall school, Sunderland Jonas Win Turniture Broker Foregate St. Chestes (a strangener of 15 sets of hours x 13 sende builter feet anonymously)

& her C. H. Jeffreson Head water Cramman Polish Culps un? E. Jarvis Paromage Hack thorn. Lincolni (mis Cracroft)

nor Judd Birdling Burthefutorfad Chex

Nev. G. Kingston, Farmborough Brunley Common Kent New W. Kirkly . Wand sworth Commen Sw. The George Kirkley for Bicetter Oxon.

Field Brynchia Partmage When Land Land

to 7 Laurie Syl. Duntable. Henry Luder ly. M. D. Frint, P. Colchester Grey H. S. Lawford God. 44. Bryantine Square W Nev. H. Lee ! Broke her' D. P. Lewis Eurestord Vicarace West Pool. Thomas Slewellyn by. Couldon Place, Hauley, State afin hay Nes John Lloyd Res J. Kane Westen Vicarace Newark hr? Timothy Kenrick , Maple Bank loboulon (8:00 Crampton) Nohn Kempson by 4 Portland Place Morelez Nond Bermingham Much Keul. 4. Beaufost Villas Ransden Noad Balham Sto

* you do

Dushington Vorsion. New V. Spring Parden God by 16. 8! Quesan V. Coestminutes 4. W. Laurie Pr. Dunstable. Henry Laver Ry. Ud Primity P. Colchester Grey # . S Lawtord & 4h Bryanstine Square to. Nev- H- Lee Broyleg. I New - D. Philipsewin Swithfield vicarun west Post Thomas Llewellyn Red Coulden Place, Hunley Stoke who They New - John Lloyd Kirk Ireton Nectory Wirksworth Nes! I Lodge, Scriveleby Nectory, Horneaste hes - Charles . H. Lowry. College House North leach Chile Nev? W. F. Lumbey S: Edmand. Northampton Je Deaphon Luxburgton Sey. New C. Spring Purdem Vartrez Lucleur lin by 16 & Queen V. Westminster the mufser Helen a Mary Lewis 49 Hagley Road, Bismingham Nobert Loda En Sec & Marine aprimer C. 2. Noral Eschana Buildings Ec Mr. W. W. Lewis Pelham Crescent, the Park, Nothingham * 7- J. Lace lock - Stone gappe. Crofolich - Leed. los leich Struelish, learninglin E. B Luxmore Sur Brynaraph C. araph N. Wales

Lawton som of East Durham sent by last the Capter (ale to al 10)

Call Lloyd Glastevin Llangadock

Med or W. Leamon Esqt Willestrew Park near Tairstock

(Baron Letteridge - these are the hunstmen)

X. M. dindley lof. 19. Cream HM Sardens. Hyde Park W.

X. Lawford from Sherbrook Lodge Nightingale Lone Clophons

"a friend")

V. Lucar (see Thompson)

L

* Modlet hed Lewis abberleg Nectory Stonopost , faire Kein 48 Francis & Edgbarton Birminghan a. W. Mortimer 3 Bangor Terrace _ Lozells Noad Borninghan C4 James Kein Molliet 33 Jacob Mayer las, arboretum 1. Derby. Nev. W.S. Macdonall butden Nectory Newmarkey New J. D. Macgathermal Bartholemen Borrage Cambrile lorliam manby Eng. Teller Hill w Wolverhamples Nev. 1.T.C. margetts, Bly borough. Ildivard Martin Ly. 3. Nelson Terrace Cluphan Comments Med J. D. Maring learn Sighart bilarne Warrington Sir John H. Maxwell Bash . 6 Mentaju Guare W. 7. W. miles Sed. Watford Herli Colonel Mansel Smedmore Wareham Nev. G. V. Macdenna near Lynn Norfolk Wm manley her Hoddesom Herts (wmansell) Nes- Francis Morse Nottingheum (& Nes T. N. Hatchinda)

Mes? T.M. Macdonald Kersall Neclos Manchede,

19. Matthews Rec! 22 Park Place beg Sanderland

Marshall Mes? The Mount - York

Mes Marsden Bartey Durham

Mes? John Mafringham Longhert Burstem

(Mes - A. Watten)

John Mac Mullan hes! 161. Adelarde Nond, Hampstead.

Mr. Muckinian New A Warten

Mr. Muckinian (Ch. 18witch)

Mildred (see Richarden)

Marstein (see Richarden)

Marstein (see Richarden)

X maturin C. Sabriel aunefield the Cairwis Peith NB.

W. C. Nicholson 1. Windfor Lang, Phymonths.

(by J. Keir Morllet)

Nev? W. H. Manles Frome

Nev? W. F. Nevelle Butleich Vicunage, Elastanburg, Nev? 9. 8. Nicholas, Clewer, Windfor.

Ne Nev? 9. 8. Nicholas, Clewer, Windfor.

Ne Neval 7. S. Norgate Sparkham Nectory Norwick

X S. A. Notcutt & Sof Solicitor Howich (However History we the boys were this school who cheen history with them)

X Herbert New by (Solicitor) Eucham Corcerterthise

XMVI blu Nichols 23. Landown Turner. Chelterland

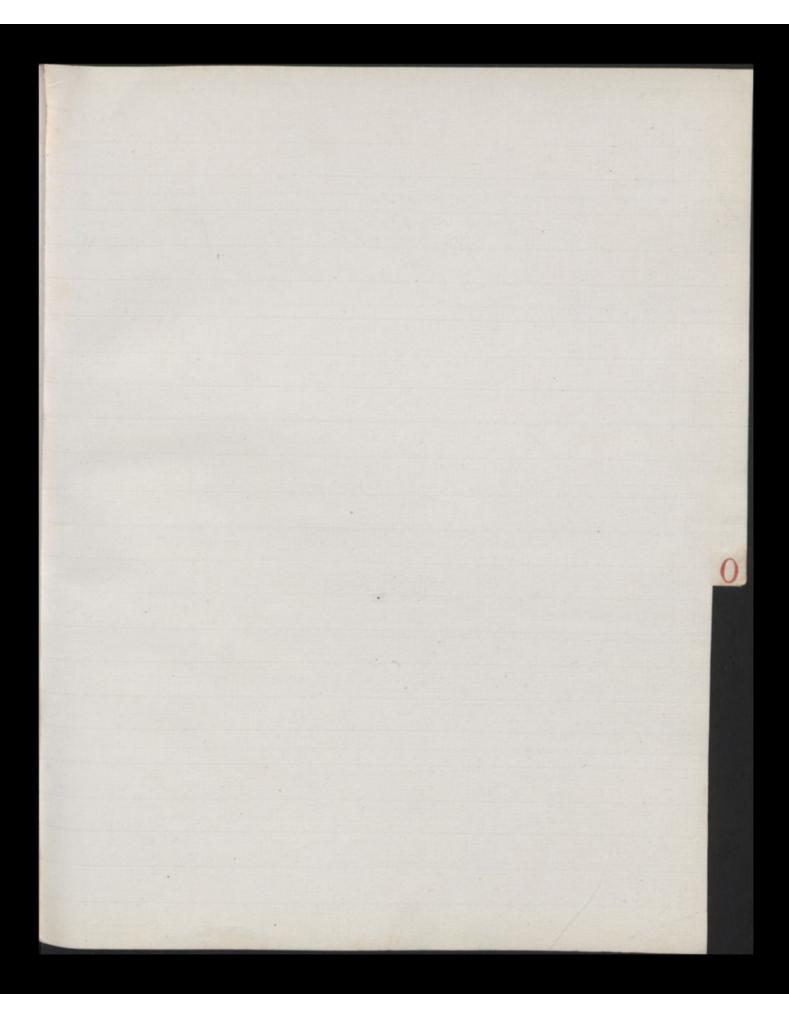
& New W. H Nauls & Frome Vandurch Rectory)

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nev A la rogle Skolg for bienrage, King's Lyun

Nes J. a Ogle Sedatord Vicarace Kings Lynn 5.42v New? Octavius Ogle Oxford (1z New H. Dale) X Mr. Oldham. Oak field Chudleich Deven (dent kans)



Nev. H. Pratt Shepton Mallet. Otiver Pembertin by Surgen Bermurhain Hon arthur Plunkett agent trish Society County Verry Luly XProfepon 8- Vacet. Mid FUR Cambridge (H. Jackson Morayl & Darwin) J. Packard hof. Hoyle. Luffolk. Henry Payne Enf. M.D. New Hill, West Melling Rotherhaus Hagh C. Penfold Sed. Library Chambers Middle Temple Nes? H. S. Finder Bratton Fenning, Barnsteple. X Nev: Han Tix. loimborne. Nes - S. g. Poller. Hollescroft. Sheffield. Nev. H. Pratt. Sheptin Mallet. Samuel W. Frideaux Ly. Gartmonth Sevon Mr. Paps watchmaker Frankwell Shrewburg I Pugh - children fa laboury man, sext me by Ned- V. P. Lewis. William Porteon Suff Confolk of Sunderland Phillpotts Ned Chimceless - S- Elavian Penryn Cornevall Mul Pinder. 9 Cheritan Villag Folkestone

mo 9. H. Porvell Lory Bank Hampstead

9

X W. S. Nedfern Low Place. ann V. Birmington. (4 J. Keir Hortliet) Nev - John I Naven School House & Garmonth 2. N Nead End. 38 S. Ecorgin Novad. Sto Edward Hawkesley Rhoder Sel. 23 Eloncertes Cretcent. NY. Marler Nichards Ly. Llangollen. New J. Nobusin Holenwood Vicarage Manchester 2. E. Morosell Ind. Ham ble I'm Nectory Surrey Nev- E. Nords Brereton Congleton. W. Nobert Routh Keqworth Leicestershire (New- William Roberts FTCD. Winity College Jublin (Michael Noberty by FTCD Trivity College Dublin (Nev. Your & Nowsell Hambledon Farrey (Falter & one fit twin & J. Wilson of Nucly) Major Nordlands Cotton Will Shrewbury XJ: Wantom Nottingham J. Need Red., Thornhill Crescent, Sunderland v Roundell Migher (seat by 5- Weger)

Notes Roberton Cared Mrs Ogle New Mills Manchedes

- Rooke Sol. Surbition

X Sin Rawton & Rawton Kema Back does newlands Houte

Jedo Hawkeles Rhoder 11 Norfell Road S' John 'can No John Newals Sid. Lenter W. Nothingham

v Richard In Henry york (in mildred twini)

F.51V

H. Shann by Bishops Hostel. Trin Coll Cambrodge 14 H Jack su through & Darwin) New W. S. Salman Brougham Nectory Westmoreland 7. Scott by Bridport Nev? Thomas Sextecensed S' Mary's Town Throwich Capitain Jelly 3 Chefistino Villes Buyowater Nobert Sers Est. M.D. Epperstone Southwell Notts A7. J. Shapland Lev. 70 Erand Parade, Brighlan. Neo . a. B. Simpson, Berkill, Hastings. Med? R. Skinner Lea Marstin near Birminghem.

La Capolina Smith and by Pembroke Road. Clifton.

Med? Frederick Smith astern Brook Birmingham armall!

Neo? W. S. Smith S'- adams College Birkenhead 9. Pyennyte Smith Swift, O. mounthead Leed. Nes: 7. 2. Smith Had Hock Neclory, Linten, Cambridge there Ned: B. Snow, Buston Bedwardine Suffolk. S. Stomer_ & Geometice Road Birtenhead, Nev. G. Stable, loeston, Leanington. William Stocks lef. Doroham, Clitheroe. XX. J. Stokes En Row Sentille wham with H. W. Sturten Ey. 29 Barner G. Greenwich New! Samuel Smith Nectory Northwold horfalk

Thomas Smith ly Waterlos ft Birmingham (Neo L. Moillier) I July Sanders Suf. Handworth. Birminchan. Major Equeral (M.H. Scott we sent win the circular) min Stark Lad Estleke. Nouville Edward Simpton Int. Tombland Nowich - Smart Sid Maswell Hill

(Jan William) Mustwell Hill Nev- B. W. Saville Shilling ford vicarage Syster Mrs Synge Me Lodge Beqwell Bay Ramsgate. William Sparling & Petton Hall, no Elletmere Shropshire (W. S. Leightim. Luciefelde Shrewburg) The Mikes Sammers, Market Man Durham (hive word) J' Maur (Pomen a Percy) - writest manor man Marlboropol (Red H Water) Ned. Fred: Swine (brother wlow of the Rufer Staunten) Uston Mecley Newsok poer

boteph Shirler End; Longbort, Burslew

W. J. L. Scott: Riverbank Londonderry

mell- John a Geora Sansone (Farmer) & Hamplin W. loesham

XW.O. Stailer Peurhos Holylead

We Smith 22. Ferry hits Place aberdeen non Sopwith Wightingely Lane Capbain Commen.

mr Twip Streetly and near west wichhow (ly Nev - a. Bell) Nev? T. Tanqueray. Tugntt heding bobarn Bestorther New ? Eron W. Thomas, nailsworth. Nev 2 E. Thosp, Bridavater, Somersel. Nes! M. J. Truman 106 Nock V. Sheffield. John Tudor Ly. Forchetter Mornel Charles 3 North Warthowley of Wrishinghour.

William Thornel The Dright Windles of windermere or men him

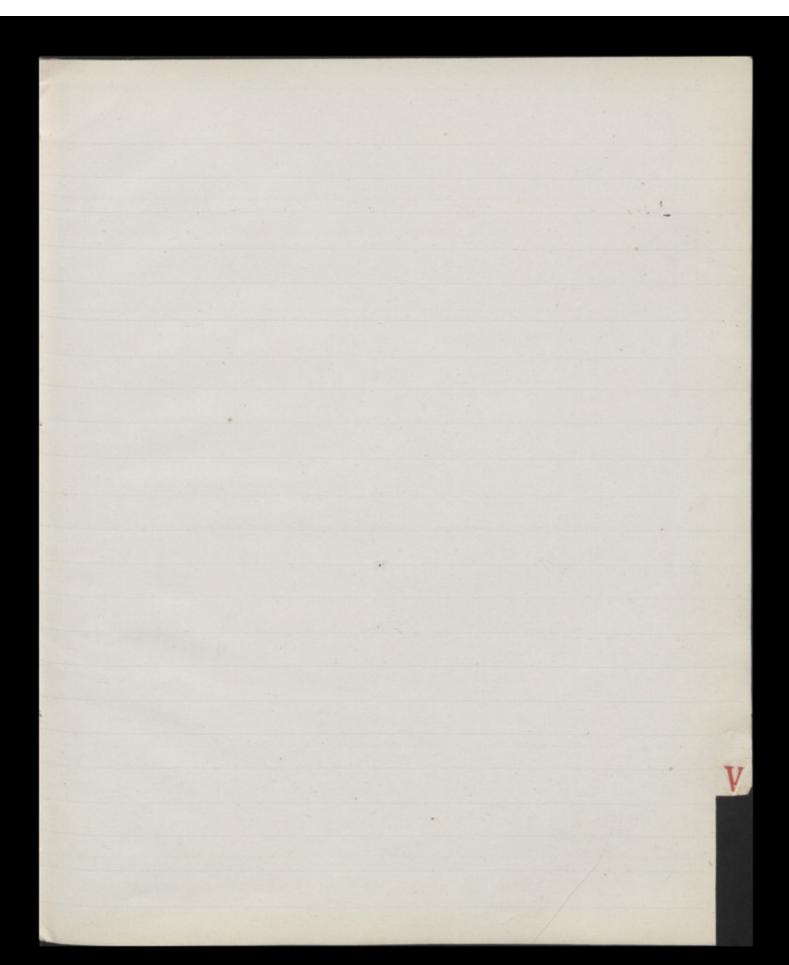
William Thornel The Dright Windles windles of Wrishinger or men him

(Levens) W. Thompson (Crocer.) High 1. Everhan Lady Tarleton 58. Warwick Guen Co V John Thompson-Hitchin- (on Lucas twins) I Mor Janiel Tapper mie Martin 1 9 Strathmen Pardens to

Info Thabor Redesor Richman's Road Malverna Links

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W. Vigor. Vilacksmith. Caterham Surreg villier (& information) Now Venning 45 Belsize Park Euroben Hampsterd (Mich Kent)



W. H. Water End. Benet P. Cumbridge (Suggest & New TB Barraday) (warden (Bodsinglin) a mistrhe he sent is to his core. he west had worther (may no by it same) Ned-Henry Ward, Kings Square, London Edward Waugh Ser Cuckfield New- N.C. Webb. Billerica, Brentwood, Nev-C. Whichford. Burford. Saloh. Xa. D. White Sig! 5th Chancery Lane WC. I trancis Whitevell Sy. M.D. Shrewsburg. Nes: 9. 1. Wild. Bisley Nectors Bagilist, Mes C. a. Wilkinin for S. Willingham & Lincolughere "Nes- W. Willeutin. Erect Lavington. No He George Williams Chevre buston Beverly Nes H. Williams Print Square. Tower. J. M. Win Eng Mid. 31. Harley V. to, Med Etaker tom Moclin Vicarace near Licoten L'ques surilient to thing of Broad chalk Vicarace Salisburg Nes! W.S. B. Wood west malvern. Nes? J. g. wood of Sorth hour Belirdere SC Nev! I worthing tin Shuckburgh Vicarage Jaseuls Philip wight by. 16 alexandria Evove Finchly. X William Wynyand Ent. 32 Bulow Earden (thorston) Grant Wollen Engl (Solicator) Torquey

Muf Ward 13 Down's Place Victoria 12 - Keninglin X more ward New Stock Durham M. S. Walker lid. Custom House, Donglar, Isle of Man. other F. Wyer En Mid Cipherston the avenue Leaungles tends returns of Broundells a artis la sure paper Mr Martha Wilson Claughbane Namenag Ish of Man X Wm M. Watefield Roge & arm dell liguare Lower I New asserved Watter the Necley Burrlein Statterthing (Woodridge twins see my audrew) Mr. John Walters Paush Clerk Llandoner, Nevales, v hv. J (bedderburn (I dank know who) Webster hee Lambton (also some othe notes) 7. Whitwell Ry! (Surgeon Cartle Tony Shrewbay 1 - Walters Standovery & Frederick wight by 4 Full O. Derby

Theoz 1 Heredot - person sent to

Se Chadolle x hours

7. Edward Reid (athenseus. Jena x horis

Romanez a terris

Ch. Garnores e teoris

Esta 1 Mind a terris.

Materia : C. 46

F.66 V



Theory of Herdally



Bodangton

They ware as different as possible around

has a smallish head narrow frehend standing in his movements and a vacant work to the only one of my long to the property of the body of his work to the only one of the long to the tide (As has a very)

in horseback, he seems to stick as it Chot L Sagh were glued to a horse and sits with the

> utmost confidence and courage. The only things he seems to take interest in

are the horses, the slables and the grooms

But he is an excellent mimic when the humour Leizes him & can make hunself

very comical. He is an extremely stupid boy at lessons and even at the age of 17

could hardly read. He seems to have no poroco

of fixing his attention and learner by heart

worth extreme difficulty . The this he differs

from all his other brothers and sister who

are quich at books. as to contact he

Ivas from the first, noticeably more slow in movement and he was much the fattest of the two when born. This

difference continued so that he obtained

the Soubriguet of "Falty among his brother He has a large head with well developed sounce forces roomer deel set eye and a thought he expenses the set of the set with the

he has got the nichname of

"hious -" "the Bishop", a so on. He likes music and drawing room

life. He is a very amiable boy

and naturally a gentleman. He

is always altertial xobliging to other health getting up tolien fours

or place chairs in fetch things

that may be wanted. Fond of

Knitting and needle work, his

is decided

(Centinued is decidedly the manuair sujet of the family. He is always the one to be in mischief - not I think from malice prepense but from sheer stu-- hidily and inability to distinguish between good and naughty behavious He has been hunished more than all his brothers and nister but together both at school and at home. In that he is the despair of Every teacher who has ever had him in hand. His tastes are decided for [striking instances are given which I will not quote] He preten the society of groom, a beround,

very much of a girl indeed in his habits and ways This marketerholes due in some mensure to an allnot of whothing - cough he had two years ago, which has left his chest weak and keeps him to the house in cold weather. But if so it is only an aggravation of his natural tendencies He was always a mild boy with soft and amiable manners. He is clever, in telligent but rather slow in thought. Can learn well by heast and tales in Such thing 1 for in Hung as Latin grammas & Azalox without difficulty

They were trouble up entirely by hand, that is in consismith, and treated by our nurse in precisely the Same Manner.

M. 33 Hope

Singularly unlike in body and mind from baby hood.

In bods dispositionis and Inster they are guite differed.

Strangers the know them well be a strong likerely between them but none who know them well can perceive of

Macid lemperament, ford of Samuine ford of closers of School, mathematics; product a conselect of money, went to Correlete of money, went to College a became a clergaman went to Sea, then to New Zealand on now occupies an estancis in

S. america.

I think I may say the difficultant was in nate and developed more to time than circumstance.



from trolly

oct 28 ar beg least

Sander Self-one of the liveris we were never in the least degree alike I should say my mos Si steps and my own character are diametrically opposed and have been utterly different postatistics.

Smallest, dark greg eger a dark brunn hair. Extremely delicate as child but after Tykhus fever out 16, her constitution was completely allered a she is now it very good health

Talla a larger made. Fair, blue eyes small fertires, vicinally robust but because delicate after there when a girl of 16 out 16

Ford of books, Learning was I may say never the least trouble to me. an kinds of mechanical work were exceedingly distaste but.

not Studious, not fond of any kind of learning Fon I work and all household occupations

my sister.

Since my 17th rear I have fought my very in the world Timed and yielding very unself-reliant.

As a child I was observed fully parsimalt, and am aminable a severel tempered. generally still quick tempered. It gay and light hearted, but becomes deprepted my sisters rely completely on me in all business matters under Even a slight illness. Feels the sorsons matters of faith are not so Easy to me as to reliant faith which has never wewered and my sisters. never questi med

a very strong affection subsists between the two sisters.



(Harstoote Shere quiffer). from the falter

They grew very much abile, their hair and eyes of the Same colour, those most near to them were constantly liable to mistake them, by the time they were 7/2 the difference became marked in they are very write, their tasts, and hability are difficultar. They are both very intelligent and fall of fancy, but in different ways, Neater a more Elegant in her look and | awkward mover and inclined to be left - handed. more droll, more

manner; handy and a good mover.

Sharp and critical more active, and find affectionate and clinging and more of reading

are both fond of music and both fond of animals, but-

all animals are more attracted by the younger heleased with her linch and

They have been treated exactly above; both were trought up by hund; they have been in the same nurses and governelses from their birth and they are very find if Each other. Their increasing dissimilarity must be escribed to a natural difference of mind and character as there has been nothing in their treatment to account for it.

GALTON

The two sisters are very different in ability and dishoritum

Enjoys only the ordinary amount of tabent and ability. When at school she kept her position in her class through industry; she has no taste for music or drawing.

Born a poor weak delicate little thing; for the first year I did not Hinh She could hoffmily live. As however she became stronger, so she displace an unusual more retiring lour firm and determine amount of quickness and talent, was happing -alet ford of music and drawing. She is of an active excitable temperament

from infancy they have rarely been separated roen at school, and as children vititing their friend, they always went together.



They were curronel different in body and mind from their birth.

brotte, and I were complementar so to sheat in hourt of about to we was contemplation, hostical, literary to a remarkable degree, thewing great hower in that line. I was practical, mathematical & linguistic, Belivier is we should have made a very decent sort of man

W/ 15 . M



M. 12 Burton

from father

Both perfectly healthy and strong. From their birth titl now with exactly the same nurture they are as dispinilar as two born could be. This holds true of them phytically, mentally and in their Smotional nature.



10 m Green

They have never been separated, never the least differently beated in food clothing a colucation. I Both have had measter, whoohing cough and scalatinia at the same time. But teethed at the same time, and neither has had any other serious illness. Both are and have been exceeding a healtly and have good abilities, yel they differ as much from Each other in complexion, height and mental cast as any one of my family differs from another.



from the fathe

their mother

M 46

I can answer most decided that the two bogs from the mornent of their birth were perfectly difficultar. They were from the first nursed 4 the same worman, went to school together and were never separated titl the age of 15, when the granger weal abroad blearn a batriels, while the older continued his Education, went to College a in now it orders.

The perfect diffisherarily exists in character, habit, and likeup up I the present time.



Very diffimitar in body and mind

Is the finest of my 6 children and looks
11/2 or 2 years older than her his in
Sister. Fair, blue eyes, large like her
father; alway, healthy, fine appetite
and when ill suffering but little and
having all infantise disorders in a
mild form

In mind she is quiet, retiring, and slow but sure; good tempered but dishored to be sulky when provoled

a very small child for her age. He dark, has clarker Eye, than any of her brother and sixles and dark hair like her mother. At her birth it was with difficulty that she was made to breathe and she was kept alive for the frish week of her life by brandy Bad teeth and always suffering much hom infantise disorder

- In mind the is quick, vivacious, forward, acquiving easily and forgetting Soon; quick tempered and choleric, but quickly forgiving and forgetting.

They have been educated together and never separated.

Fnil

Redform

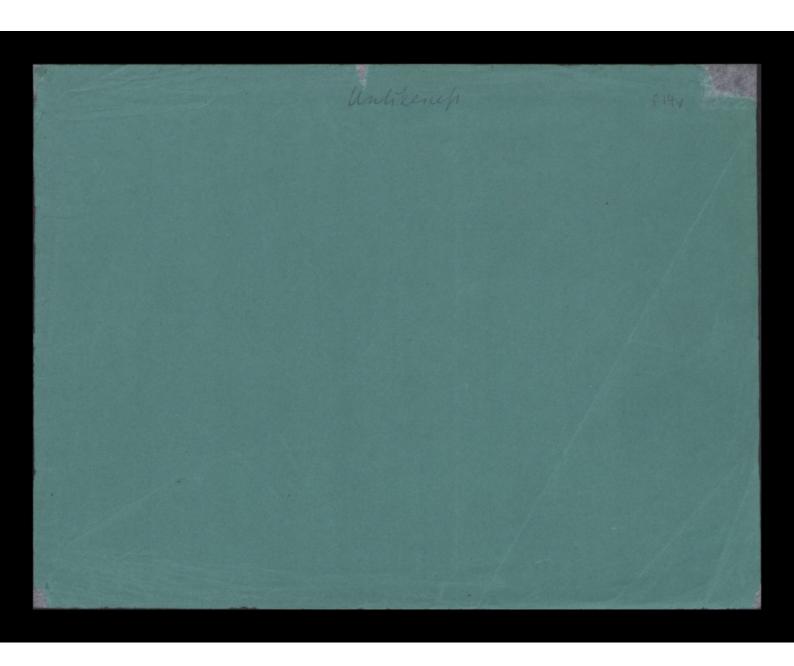
from the falter f 13

They were never alike Rither in body is mind, neither of them are like their mother of ascribe their daily increasing disprimilarity to

: developing the outward make developing those of her grandand mental qualities of her grand- mother, on the father's side -father, on the father's side

The external influences have been identical; they have never been separated





Boys

M. alike 18. Arnall und though clerymon gy very runch atike in body and in mind. Their haunts could hardly distinguish them we childhood & boghood. Matil lately as mearly as fightly the lame height a weight, clother the same fit, same cross of hair and eyes. Neither of them very find of athlete exercises but latter disposed to begant and stay in doors. Internation of voice much the same before times similar & companions the same.

Within the last year or two the close retemblance began to diminish of growing, the taller & storter & 2, thewing year mental power.

I think the physical defermitant, due to the development of qualities born with them as they have been brought ap and nounthed under precisely Himlas circumstances. Popetty the encutal Himmely may be partly due the chifferent trades they pursue. It being a printer and 2, a stampera tool corker

M. alike .53. Butter th: brimmed the winds than is that been always much elike, physically a mapally, and more so than is usual among brothers not lovinis. This has continued ap to the present age 53.) at the same time one look more after his father, the often (more after his paternal uncle. They were constantly, mittely by near relations of tehoolfellows. — Same hair, eyes, voice, and latter no affinity to illness.

Though ceating education lorether as 14, the same likewife and similarity continued; their other brother is offerent in mind and body. Definition furnition and acquaintainces he doubt for a time cover a choise of there but the removal of these historials lets free the innate likewife of reind



Creed M. alike (quite 50) their brother 40 trees good looking will built men to feet in height with light frech can bley wind bouter to atoke that it myself and not puto them spars; neother and true trees . They wish both ment light hair a remarkably well thapled hands. I (The tesemblance over exceeding close) more forms In boy bood both had very high thereti - both arder politicians & liberal. both provedul a ver action in youth, especially in the then called "noth not of self defence" In manual theill both wen good it, a ver hand man, especially in drawing coats of arms, being devoted theroldry (2) was a very clever lungeon. Special laster any similar (1) (from his training) finer, more correct. Both very appointener I polar des timilar their state phealth had been much the lame (1) was the stace in borberd & worth. & more good firsted, her was a Cambridge hour rian . became the left robust in later life and died of years the lasties - Handwrite; fine, ligible, bold. 2, Sanguing Atome times deprehed - had a fair single word I sure to land for left strain of mind the layer, the word I sure town. They never were unlike in body, the unlikewife in mind was the retall of their different training to a great extent; that is, mainly to letternal on fluences. 11 had a larce family 2, had ar children.

Foroter M alike 20 From Fatters I Heinh So much aloke in Childhood & boy hood that absurd mis later, avoic New in their 20 Escart, there who know them well do not mintake them but this is in a syrce croix their wearing the one whisher the other absend (2) was 1th lighter thep his brother as birth and continued rountil greatly reduced & and thuch of I mouther durater at 15 (1) hought h 1/2/4 Until that time they generally shared my little indifferentia, or one tottorded the other within a few days. They shed their first milk look within a few hour feach other. Complexions eggs secuctor v, thighthy life action & left high thinks Voice decided deferent There is a marked difference in their differentions of works much with his head, 21 with his hands. and get these ans perili foundary. they am both by social in their tastes and find of nurice & hirzing as tur as my observation for, their increasing defermatary is chieff owing nors & External circumstances

M. alike 20 Guppy Gen the Faller 42 One has been always taller; the difference used the 2 wicky. but is now reduced to I wich. Their weight at 10/2 were 75th a 72th they are ver able in body a mind; eyes a hair the same colour. My were estreated at Sherborne & kept in the same chof, till program down with Typhus a consequent was kept at how a quarter. His trother therefore got total ahead. They each trouch home priger there, but could not do so betwee when both were in the farm class. They are each ford of maire; althetic persons are about equal On her bearne rather years buyarions than the other & never particular in his fustand appearance. Handwriting is similar in the formation of the letters but one wrother a large hand & the other an equall truall our. In this care Nature & Nurture have gone together

Homer M elike 2h how their motheth 3 They have been always very much alike, near relations have mistakers them constructly - Same colored hair a Syca. - vorce deg much alte. 2, has always been rather heavier & has been talles tince at 1) 0, was he wich the talles who to 7 - Present les 15,5.11/2 a,5.11/2 a locatety 2, 11.13 1, 11.3 th. They are to nearly the same I hope that they can late, ever lad others dotters a set then is a perseptible difference in their Shape as week as the when some touther Similar & curiderall horver of altheletic perference . Have never them any differencia mound Shill which count long be traced to recurredances, theel as one learning todonor a the other not. Handrovily beg defferent Sothertian of remitar - State of health by much It Same Much the Africulary in their boss, shope from properties and a creation when the Minister aline continued as the new wholes for the stand on the new almost calines when the So it may be considered remarkable that changes of execumptance have Educated lighter lite I, left Etenal 10th to Balid a then look order. 2, went to Trance

a Germany to 4 class a sice to a merchants office in Leading

M. alike . 73 Lehmann Selver hy
Great similarity from early infance, until advanced age. Even now
it is obsticall to dis traqueil there - Same height, compleyin, appearance
movement. Their father used to distinguish them by feeling to a scar in the back
of the lead of me of them (but over this failed for the other, had a fall where a sen in Exactly
the Same filace). They were hat book he is common. Let the University their
handwriting was undithing with all lover by themstelves.

Temperaments different (1) calmer 2, rum vivaciones.

Mentaly Macallogre alite - Bother all ghad mender & both of 23-the loot ache with same looth Now I is storter & is the stronger in health, though he had most illust.

lucio never separated till sel 22 - aller ded the same lectures, read the same books and Cultivated music with squal results - their ideas bleame to alike that they ultered the same opinions simultaneous & had the same securioniscences recalled at the same moments than Separated to 34 years, after which they revamed their former introduct relations 18

M. alike 55 Lawford.

Sheatty alike in all. Close resemblance scarely diminished by all.

When school fellow, near could tell them about.

Same height always, same colored hair and eyes - beg much abbe in manual thill. Interation of voice always exactly abbe. Special laste, always the lame tension was trimular both amateur marrians scarly force of the same runsice - both for of cleaning clocks, mension, locks. Both tylerable action a very affectional.

21 a lifte stronger in athletic performance a the fetter restriction said also to be the shore "heppery"

Shot of health the Same.

Until 23 reun old educated together, parrising the Same profesion contragein the at 29.

melike to Lushington school by the continuity mistaten & friends, occarrinally even & new relations on a hurried meeting or under other especial circumstances. The behends has prevailed through hope

(1) heret 5.8/2 2, 5.9/4

lowful about 13 stime. Same clother, fit both but 2, rather the larger thair x syes exactly the same colorer - porven of athletic performing handreally the same; not naturally dexterous bet good porven of endurance. Neither her any Shill in dvaring, in in any manual craft

Handwirtig not marked finitar, Int both have the same change of legitility. boice; both leave & ory like in quality voice often mistate, special tactes not very marked but almost invariably similar. Both find if much bethere the same religious spinious (which are not there comment profiled) both admire the Same persons, broke to. Speaking broady, they is nearly identity of i finion not partect till life, then (2) went to Ruyby & Balist 19 was for 3 gener in the R Navy than to Harlesbury & Trèn Coll Cambride. both left the universet about the laure level

Abecaus barriters. They lived of years in the Same looking, together & married the

Same rear. In 18kg I, became Sec? Alle admirally x 2, light advices I the Home office.

Normarked defermedant can be therefred.

The external circumstances of both have been very himitar, but we attend wheelever literafe is unlikely, there may be, mainly to natural qualities.

M. alike of 57. Mansel were always extremely a like in body and mind and are so at this mornent. I want the hard the same height, sign hair, complexion and eyes were and are the same; we expertent both bald only a like height and the former much the same

Tade, were much the same

bol (1) was a civilor of truck & vescelled in Natural Mister, Betary a Geology, 2, was a Affelier

I should certain for our aforesteen of idea wood he iften making idealical remarks health of 2, the helter

Stand Conservation. I attribute his trafices to other influences when he left Cambridge.

Wern educated totalles up to 14/2 there upwent to Cambridge, is, to a military entere

Boys alike

113V



Boys

M. alike 38 Moilliet #15 selves by Resembled closely in body, mind and disposition (numerous ancesotes)

Same height, colors of hair and eyes, interaction of voice, queend minners, hibility and tastes. Signorthuis vaporialisis of ideas were wonderfully alike. Health much the fame

usa lettle larger brieft a more strong physically though not in constitution and superior in athletic performance; inferior in manual skell. - love, more generous & karty (2) more self contained

Handwitting became very defect, owing to their defect purtuity

We are more sitting logether a striving to analyse the observed in the sharaders and how and when the close resemblence, began to deminish. The inters of observer seems to be will more originallity meditative defith caution and independence in intellectual sharpiseds, clearness of thingh, energy approach of tempera went.

These seems there mushes at through life, though for a white when we trust separated the one in business the other has the other as the other with the that that at the at time we each you note the character of the other, the proof of this Consist, in our own wellecling and in the letter correspondence and the brew lost tothe of matters in which we were interested the discreme if our characters. In the emprayer we trusk in the best of proceeding world have increased the discreme if our characters. In the confrary we trusk that to the last steer grows we have been a source of the last the characters in the state of drift reached in the exercise of our capacities and their their these fleet feeter and influences.

Very near sessions of the governor like the steer of a latines, a the governor.

prepared fr. the charach ago the brothers did not meet for nearly 3 months, the one being is the South seas. No perceptible difference in disposition sound than been effected by their separation.

M. alike with Oldham

berg mud alite in body a mind in childhood a bogheod and an adults have been more than once mistaten

nearly the Same height (h feet) can wear lack others clother, have a eyes the tume (durch). both touch of athletic shorts a nearle the same known Both lond of drawing a have some short in it. bricer alike. Both bease some taste to mutic but me has more apportunities of cultivating it. Health has been in the whole, fairly good

Handroriting very dofferent 12, has had theumatic fever.

Disposition similar; when young, one would begin and the other finish a hentence

Whereducated together a were not separated tott they left technol when the I, started in life, 2, was at home 24cms.

From that time they have been living together, again, and now keep house in their joint larnings, having me purse.

M. alike 34. Phillpotts

very much alike up t period of separation 10 u 19. (ancesoling mirtieles, ting)

Height and every thing else the same, except a mile in one check.

Clother commun; also boots

Equally good cricleters

Of late years the boots of I, have proved a little light to 2
since I, has gone to India lu has ontgrown 2, or the
other hand the whicken of 2, have ontgrown those of I,
the resemblance began to direction to a little gradually
but the creat difference has been since I, went to India
of converth effects of an Indian Climate have been considerable
Query?, does the extra growth come from this cause.

Educated toutte up t 12. afterward I, became a citation in Bombay.

and 2, well to Cambridge & became a Schoolmarter & a chergymon.

M. alike 33

Raven

Werg much alike in body a mind from their birth to their heavier

(1, shirth latter a more square bruth, perhaps a trifle heavier

Colour of hair a cyro the dame Both excellent excellents; the Elder all

round the grouper a batsman

Hand writing were similar interested, alike that the write afile, missoort

them had gear . She coul taste, the same murical a laterary

VI to Singing voice a functioner, is more least? "drawn out" in Society

State of health much the sense

Sathibute the Small increasing difficularit, many &

the some executed by their at the Clergy of them are been up to set is a 16; then
the someger left the school a war excented for the medical profusion white the
closer remains at behood, proceeded Combridge & took 4th orders.

They this continue to resemble Carl Their bull Sach her required a thirth preading
therefore and manner

Makke her Robertstewe Mitten then them calmate 53 who tool of it was imported to the then calmate 53 who tool of it was imported to the them. Wen at the At in health & his brother grows to wide, latter, at at 20 01 had regained his health and hiterref, but he is stell after a tomat of the stand the stand his plant to the the the stand levery which he acquired during a few mouths, that in America. Handrosting touch a few about going the marriage glaper a weboth - also about going the marriage Whey were both of room, world, dearl may care differentials; loud boutern, tath but of was a lettle the civiles tomaterful important but bey true; were retracted thei; lay agreement, horacve, hartely made. (The mother has 5 children all mecental; the litter in the middle of lleven and has 40 grandole libren)

Wakefield M. alike 29 In features exactly aloke up t present time (may unstates, luna low mands) Height appround the same then I spirally latter I thento me trul would do for the live Healt huller had a twelle the land, in the throat, which win near as laye as a trust fautiles, into hood. - how directed Hu Handwritiz unlike Doice cloud able & are tell untaken by provet & relatives - both runsians Indingial 1, a tener (2) a bay tour Sothertion Larealet Similar perhaps 27 has a little more dies Line Opociation of ideas of ten coincident, such as remarking when the Samo subject alle beloved some moment, a commencing the Same Song in the two were say abroad, let about 22'/2 21 went to the love Indies and 1/2 (he being say abroad, the hair of both brother began & thin is the crown of the head for then became Stationery - 21 returner after 3'h fran of absence, in bas health our's 6 climate and about 2 stone lighter or more, but it now quite huntelf again Educated together what gha 10.

Malike in Soury way from their infancy (numerous ancestes)

They are about the same height a cought. hair (now going occ, gray) were the same colour, also eyes. Power about similar.

Head writing a voice we much about. Sporting tactes the same. No tetent to marie is art. Sithon time, afrociating a remarks able.

Educated togethers till they left Eten cet of them both in the army a one quartered town time in Ludia.

they were both alike in structure of body, have x lyer, and obthoration. They were often mixtuhen to lack other by near relations - Their attributions the lame to that they always take next lack other at sohood. Some ability in drawing, some took to munice up have a tornew but more book temperament 2) takfined a little up to him they can time a red craftein

Educated alche up to their 17th year them U, went to the leniverset and 21th the back buttered.

Just now they are both in the "one-good voluntary service" are very health, and throng a of the same stipe a try are still shothingly above.

Malike 20 Hill I name Salter Salter South of the Sent Steen Survey Cloud alike in features distripation was total and about abordions features became should obligate in the south court server lighter, liver by the boute that and on the by affectionable of the same was seized with Bright defense sied . 3 months, alter the other died also of the same disease.

"They were those in their lives on their geather and divided"

They afforded a remarkable instance of wonderful similarity, both in bedy and mind; the latter continued all their life. When first borne they were to perfectly alike that weller their runther was marge could distinguist believers them so that A had a rebbon treil round his write, I surere their taken the breakly trong they like the heartly trong they found here for the ween about 10, no cue ext of the family soer speaking the fittern without asking his name first. Looking lah, Sight a continued alteration of physical likeach long and so their death.

They were both Studions, excellent arithmeticions; fond I drawing shooting and fishing; always must bead the in their class secund favorates with their school fellows and all who knew them

There their inclinations more clashed B consulted Aswither, and deferred such of them have obtained a clerk ship in good officer, they lived together in a friend's house, tell the health of A quoi way. As "they were lood, a pleasant in their lives" so "in their deather they were not divided". Either, as regards the cause is time of it, to they both fell victims to Brights distant with an interval of only I menter, clinging to Said other with the bunderest affection to the very last, and desing with the Same form faith. and in the same same hope.

Boys

Boys. \$ 28- 3 Munlike of 11 Bodding lin milk streeted by and music is the same manner. They have always tout it on const milk streeted by and music in fraction to the more manner. They have always tout of home touching and have been by and the streets of the same have been by the light of the early goes light.

If we always their, light, actual, shoring you his movements.

I have a truallish heard marrow foreheard staring leges, elevated lege runs a communitate with fore and pary ormed sands notes at leftour & love a leftour & love and a bread look — He is an elevant plusted boy at leftour & love alliates, a heart by heard with extreme difficulty (in this he differs from all his other brothers a testers who are cleared a quick of books) But he is an excellent minister a when the humory heiges him can make humbely very courted. He show in a jerky indistinct manner. As tecnonet his decided the mander had their that family. He is always the one to be in mixtedief, not thom makes had there the family. He is always the ore the in mixtedief, not have been from makes but the rest of heir

brothers - testers feel together both at school al home. He is the derhain

hasty trick place, it is he who alone who does it. He prefer the tours.

the culy their, he heaves to take

of grooms servants, and his the only one of my boys who can riche in horseback. He teems to thick and were glied to horse & to truste

the utwost confidence & course.

1 Svery tracker who soes had him in hand. If then is any dirty,

F.30

interest in , are the horse, the stables and the growing (2) The other twin, was fine the first not really more flow in movement a he was much the father of the live, when born. The difference continued on they goew so much that 2, obtained the Sorbriquet of Fatty aming his brothers & soften . He has a lave head with well developed Aquan het forcherd, rather diepset eyes , a thought tet expedicion. He is so good that he has got the wick many of the 'pion Arthur', 'the Bestop' & to on. He like music and drawing room life. He is a very amiable boy and naturally a qualleman. He is always attention and obliging to other people, getting who to open down a place chairs or fetch things that may be wanted - Fond of knitting and needle work, he is very much of a girl indeed in his habits & ways. This may purhaps be fore in some meature ta ver hever attach of whooling cough he had I sear ago which left his Chest weak and keeps him the house in cold weather. But it so, it is only an agg varation of his natural tendencies. He was always a mild bogo with soft a accieble manner. He is cleves, intelligent but rather slow to thought. Can learn well by heart, and taker in things much as Latin grammas & Syntax without difficulty.

Green

1.32 M. unlike of 10

developed more by time them Circumstance

Com sixter 65

M. unlike, 33

all the test regarding simulant, fait.

Mnd alike boys Smith F. apparent Father body or mind. They differ in tige, in features and in character; though intellectually they do not differ to much they are still being educated touther, at home.

Smith muy Their rudling 60 F36 M unlike at 45th I can an river most decidedly that the living fine the rument of their birth com perfect defirmation they were from the first, rursed & the same connece, went to sthool logether and were year separated till the age of 15 when the ganger went abroad t have a burinely, White the elder continued his Education, went to College & is new in orten The perfect difficultatity exists in chartecter, helits and likewell, the present time

They ever christly different in body and mind from their birth, so long as they had ving of to alls.

They were about the same height a weight and were senister, clother by so different as search, to be mirtited for my another the hair of I, was the darker a his lyes blue there of 24 grey

a fact strack all our school contemporanies, that me brother & I were complementary, so to speak, in pools of abolity. He was contemplative, pretical, literary to remarkable degree shewing quest power in that line. I was practical, mathematical & linguistic. Between us we should have made a very elected sort of many.

438 M untike 30 Chim brother Whitting Untike in body and mind throughout their has The case is I should think somewhat remarkable to difrimilarity. Stature about the same; both delicate in infancy but grew up strong (1) Fair; slow in mental acquisition as a boy having heartighty affected " haralysis, when a child but has sing developed gout perception of true prinaples & Capacity to business. X has alway been an sutheniadi'e adminis of beauty in art & nature. It a solicater in good practice with 5 days x 1 sen 2) Book, quicles as a boy in mental againstin, popular I much hierocial ado tel ; sood at languages; always lines of the militar life, has been a solder sauce cet of and displayed goest aplitude to order, management & generals het, ratters foly in manner & aft texaggerate unimportant matters & mars: Ochildre Both gource high moral character & strong affections, but not similar in kind, Both reared in a county home and at same schooly till at 1h

Boys

The first born was much larger at her brith, but the other after a few week, became the Same tize and the were so exactly alike, that they were continually taken for lack other, and obliged towar a different without the distinguished. They same colouring, blue eyes and light hair, the same figures and are

nearly the Source height, though the Second is now rather the tallegt a stoulent, but

To alke that unless any one knows them well and sees them often they cannot tell which is which y The difference is more in the expulsion than in any thing ilse.

The, both have the same take and talent for music and plug piano and queter; both fond of dancing, the eldest has a contract, the coungest a sofress voice.

Both ride, . Their laster ter reaving, work, in bestery much the same. Neither of them care that the fight has the best nerver) (and the goungest in food of flooders a arrange, them with are stately with a taste with a dried in her book.

fordrawing but they have a good eye to colour and dref with great laste

The second when the cought the scarlatina & some time afterwards the trual pay wither of which complainty did the elder one take, and since these the second harbers a little more excitable and more excit, disturbed by circumstance, than the itte, though she is strong vactive & perfectly well in health.

They have always been brought up together and executed by the same governapes.

f. 42

GALTON PAPERS

(from the father) They are exceedingly alike in body, as to height, size, colour of hair and eyes, to as to be constantly mistaken even by verselves, and are scarcely known apart by stranger as the grow older, their expedien of face appears to defect aller, the elder being far more vigorous, fearless and energetic, the second being gentle, clinging a timed Their dreper are the same in rize, altouch the elder from being more active, is if any thing slighter than the second, heir voices are very similar, as are those of all ar Schildren, but The social of the twins can generally be told apart from the mon vigorous way of the elder. The 5 children are all very musical view very correct ears; the twins have the same; moreove of them indicate a teste to drawing; at present they are too young to judge of other laster. In dispositions there is no very real difference, both very affectimate As to health, if I were more in the subject some very curious coincidencie, might be mentioned. although there is no doubt that the Elder is the stronger. If anything acts one of them fit has nearly always been the case that identical symptoms appear in the other, this has been singularly visible in two instances during the past 15 months, thus 11 loken in London, one broke out with a violent attack of dysentery; within 24 hours, the other had brecisely the fame symptoms. (2) The same with measles, gomenthe ago. Who to their present age they have been educated together.

berg much alike in body and mind from brith to present time; so much so personally, that their mearest relations when not facing them, have often asked which are you?

Melder is a trifle taller, larger and heavier than her sitter

Falike oet 25

Complexion Similar, hair and eyes of precisely the same color, can walk or savin with the Same proven of endurance, both have have several prize at the Exeter school of art. Taster and dishorterin very semiler. Studies taste, along a round the same several dishortering very semiler.

dishortering bey semiler. Studies a tatte, always ran in much the same grooses

yet with a slight difference. In anthopetic they arrived at the same conclusions

by different procedure and in making fanaly send lectures they always explained

themselves differently. It was quantily observed that in writing an eftay, they
took who different points of older of out the subject in different though not in

ophorite ways. The elder was quartely a mark is two ahead of her sister

Their voices differ a little, that of the elder being a trifle the deaper.

when they were little children, we used to say, the elder is ailing and ... (the younger) will soon droop, but their adjusts were not always similer.

Latterly we have the observed the (considerer in Much) so much.

They have always lived together and been educated together, which will account to aproceeding of ideas beig often similar

They were from their birth much alike in booky test very much left so in mind. The bookly bloody is a be well thin how; hey are now and the marken the deter than style minimum the bookly the way and the house in the left so in mind. The bookly the other than her sister who was and is a brifle skiller than her sister who was and is a brifle skiller than her sister who was and is a brifle skiller than her sister who was and is a brifle skiller than her sister who was and is a brifle skiller than her sister who was and is a brifle skiller than and eye are of the strength of the storier were always and are still unlike; the slder having a voice of thuch left sweetness but of greats fire; she can havely sing. The gounger sings sweetly but with Small force. The cheler has great copyrage, which her sister lacks.

Their taster are similar as to music and not the other.

Whelver difference are seen in these twois I asende then the other.

Whelver difference are seen in these twois I asende then the other.

Whether difference are seen in these twois I asende the other.

Whether difference are seen in these twois I asende the other.

Whether difference are seen in these twois I asende the other.

Whether difference are seen in these twois I asende the other.

Whether difference are seen in these twois I asende the other.

Whether difference are seen in these twois I asende the other.

Whether difference are seen in these twois I asende the other.

Whether difference are seen in these twois I asende the other.

Whether difference are seen in these twois I asende them the other.

Whether difference are seen in these twois I asende the other.

Whether difference are seen in these twois I asende the other.

Whether difference are seen in the seen and the other than the other.

Whether difference are seen in the seen and the other than the other than

They have each of them to children.

a short time of each other.

Greeley at their birth they were exactly alike, except that the except that the granger was born with an unfortunate distinguishing mark, namely com none a very bar varicale affection of the thick until they were & is 10 years old it was difficult & distingued one girl from the other, com the nume was sometimes at foult. Their dispositions ever very simular, very "questing" and excitable they have had excellent health. Ever new they are constantly mistaken for one another. They exe both remarkable for their elect beautiful complexion and from hait.

If late years as they became wormen, the difference in their characters have become mun headful; the younger has the more decided character, appears forder of clutches and has joined a children's embaliscent home aran amateur nurse. though not deficient they are neither very intellectual and are dishous the indolest. The younger is storter & rather taller than the Elder. Whatever destinatority there may be, I am indened to attribute it to the variers affection to which the goinger has been all her life subject, the effect of which has been to prevent any birtect exercise such as dancing is running, and not been for the has grown older has made her more Strives and thought ful, Had it wormen to be, brite mentally and physically care more they are constantly mistaken for one another They were scarcely ever separated till they were It, since which they have been mostly apart they have otherers had the greatest attachment tour another

F.	alike .28.	Gröningen	f. 47	6

From their both they have been and are now so much alike that we constantly mustake one tatte other, to be when together we can hardly destinguish excell that the younger is about 1/2 wich teller, if any.

In mind very similar; very lively, appreciate from, quick and excelable, reactly understand boths, fond of hostry & music, good herovers of reciting and singing.

They are and always have been of very ward, the same height & weight, and the same clother, for their and eyes are of the same cotour; their howers of running and activity are much the same.

Their manual skill is much the same; internation of voice the same, rather should (in speaking) lost in reading it is soft and musical. Their dispositions are very similar. Their state of health has always been the same. They quarrally feed provely and the same time, they have colds so about the same time.

They are very much alike in body and mind and have always been w. They are girls of great abold, much more to them my other tachedoen and of a singular lagerness of character In the first 10 n 12 years of life they were to like each other that I seldom knew which was which; at first we should never have known them had not one been born influed. Shee

had not one been born ruptured. She was cred but the other because ruptured at he and has never been sent cyled. At the age of 12 the elder had the searlet fever a grew about 4 judes tuller. She remained tasking for some years just the granger has now higher her to two waters. The rounger was a pound heavier when born and has always been rather, larger the is how 2 in the taller. The elder being more broaders they

are now of nearly the same weight. They have the Same hair and eyes

are masoclount, alike, I don't have their photographs one from the other. Whey were famous at foot ball, and they are very coverageous and ready for any attentic exercise. They were famous at foot ball, and now skets very nicely. Their hand writing is Similar Their voices in speaking and tringing an not distinguished. Special taste, and aftocrations exact, the same. They are both unusuar whist plagers. At an examination at school they gave almost the same antwest. They

happed the Cambridge local Gaminateur, the one taking the only first clap of her seen, the other, one of 2 or 3 securis.

I think there is now an increasing Similarity to be attributed to imborn qualities and to the fact that they aline of all my children have always agreed & sympathined with me is broad religious views my twins take more after me x my family x the other children more after their morther, both in body a mind.

F. alike up tat 58) feaffreson (Convary nameron, family) feaffreson their earliest funth they always resembled each other very closely in bootly & mental a children the they mark on her lip (a slight harelif; I think).

In shile of this, such was the marcellons similarity of their features, expression, voice, manney etc, that even intimete friends methods one latter of the other. They were of the identical height, weight, shape, had the same colored hair veyer, the same complexion, the same latter and the same talents the latter of no mean order. They were good muticious, linquists and writers, witty and imaginative. They a 5 other children by the same marriage love all strikingly alike in character and abilities and all inherited both from faller, and mother a nervous and extremely excitely disposition lemperament, although robad and mother a nervous and extremely excitely disposition lemperament, although robad and capable of enduring good books, and mental falique. He town were very passionate though herhips not more so than the other children. They retained their resemblance the last, who at 58, when one of them died

my our imprefix is that had the elder been put in exact, the Same circumstances as the runger from the time they were defaulted (cer 19), she would have been the exact doubte of her, and vice versa. Difference of character there was none, but different circumstances of course evolved a different set of actions and to the catual observes a consequent difference of morale' but to those who knew them better, the identity of character even transparent through the variety of action neighborhood by variety of Surroundings.

F althe 18 avery lace from Jefrofe

They were always so much alike as often to be mistaken afect. I have taken the wring child from bed and not found out the meitake till morning

as infant, they were left alike, the older being a much larger child. As they beed me older the likenels became stronger, though the elder remained the larger, heavier and taller, re-- suired longer clothes & larger boot, & gloves. at at 15 the rounces because the latter a Hoster now again the Elder is the taller.

Hair and eyer are the same colour. They have equally good use of their limbs to ranning dancing riding and skaling. Their voices are the same, they have the same tatter (generally). They do Smake similar remarks at the same time. In illuly if me were teething or ill, the other began 2003 days later The older had better abilities; It that I frequently said "she is a year old than her sitter" She has the greater teste for yourie, the course for oraning the elder has a finer lither-- Sitera and stronger might, the romager is more tender hearted and affectionate. The elder has always been much the stronger. Hei, handwriting is quite different.

They have always been educated together

They have been constantly mistaken; the one for the other by those who have known them time their birth and even now some of their friends cannot distinguish them.

Their hair, their hair light and general appearance are the same; they are of the same breight, but the Elder has always been of a greater weight and within the last 4 on 5 years the difference has much increased, they being now in middle life. The horninger was always the more agale. The elder is much stronger mighter a more presistent. Their hand writing is not at all alike.

They both have the defect of not been able to come down stain quickly, which however was not born with them, but came and when they were about 20 sean of age. They were both subject to athema, which they intersted from their father and grown father, till the grounder was about 8 of grean of age, but the attacks occurred with the elder every summer till the war 21, sie which they have become left frequent.

Their taster are precisely similar; their abilities about equal; their voices are very trimitar. Itex are both of a nervous temperament.

Asthey have paped the whole of their lives together and have come under the same influence, I arend the difference in their dispositions to natural development.

They have lived together the whole of their lives

F. alike 1h (haten + 358 den) Macrae Their uncle who was well acquainted with them, although not always in their employ, had the atmost difficulty in acoquising the one from the other, and your informant could only do to by the fact that the one harter fruit we shot on one hill of her face . let few gards distance, their parents could not with any certainty tell who was who. They were Atter same height and atthough I have not ascertained their by actual experiment, appearently of the same weight; They world refer of the same fabric, and these fitted the one as well as the other. They were alike in the colour of their hair and eyes. Their plus were and their every deodope west seemed alike. Equally lobrest beg C - undergo the Same amount of fatigue. Their voices course to alike that their parent, could not distinguest them by this test alone. We seemed the fielet the same would capacities. I have repeated noticed their individualit of purpose, and define of being and acting in concert. The same a numerical pleased them, they invariably took part is the same games. Tappionately four of Each other, they leave never to favar I could ascertain, guarrelled. Her were untike their brothers and sisteer in this respect So far as I can recotled, the attended the same classes x were equally precedious. While I knew them, to a period of fully 2 years, there was not the slightest leadency towards a difference in tosemblance in body a mind. Sylerual influences beame's perverles to produce any defirmatarity. I met them 3 months ago on board a steamer in storing weather, and discovered that both got sea sick at the same time both all my knowledge of them bereiverly, I was quite unable to affect which of them I was speaking to. They were and are being educated together.
There is a congenital flequence at the second photographal joint of the little finger, in Sach case, but not so marked as because there is a congenital flequence at the second photograph of the little from their material grandomother. Their parents

girls alike

2.54v

·H-91

Girls alike (also partt alike) They twoins were instances of close similarity, so close that I did not know them afast for the first 3 or 4 years, except by their voice in which I could always delect a difference.

About 5 years ago, one of them had the searlet fever and since that them they have not being quite So much alike.

They were extremely alike both in body a mind, in childhood quilbord and adult life.
They were extremely alike both in body a mind, in childhood quilbord and adult life.
Their nièce remembers that when a child is war only by close attention the could distinguish between her mother a anat who then resided with them. Their close resemblence never malerially diminished. I family were quite efuel and believe they were reperin to to most of the other, members of their families and tertainly attended to greater ages (79 and 93).
The both morrish of and children. (Me one to the other for, hair and eyes of the same estens and their hely were about equal. They were alike in manual shill, corniced an afteluse for drawing and leadings, with the pen, and their handwriting was almost identical music they did not cultivate. Internation of voice very similar. Their tasts, and distributions were similar. Africalisms the same

Reducated together.)

Johne mever harled except for 3 weeks until

the first married oct 33 x he second married oct 39. x had I child

Falike als Scott Had a strong personal resemblance term their birth, which has continued the brekent day. He same height, the same colored hair x sqc, the same size and general conformation of head, clother fit both squals well. They are selden recognized apart except & their most intimate friends. They have said an entire identity of feeling and affection that an angry word has never been known t haf believed them. Their physical perver & manual skill as as near as polithe in a par their interaction of wice offers slight, the yourser suffer term a slight impediment of speech. Also their expression is different a cotal be aftersect to close observes this general health is closely atthe, and whenever one takes an ellast the other invariants takes the laws within a day or two and they utual, recover in the same order. This was true of whooking cough, chicken pay & menter. He have and of stight betien, allade, which they have byceoficely, also of a feorich attack latterly. their intellectual capacit is about equal, perhaps about the average, but their ideas are not Similar, nor are the same trains of there he apparent. The organity wit is more largely developed in the younger; her perceptions are quicker, with a whore

the lar to music good, and of much the same power. They have been organisation they have been onlied the Same power from their bieth and uceived the Same concerting

Ot 10 years old after an absence of 10 days, Their father could not tell them afait even up t 22 I have had t look very keenly t be true I was not thealing the worm one went out without the other, it was most marked the intense delight at her return. If one worke, the other was sure t wake also, so that in this way we often temarked it was more than doubt, trouble. Their devotion t sade other, remains.

There was some slight difference about the expression of the eye, but I never could say what. Handwriting is different. Characters and similar but not altogether alike

My belief is , they will again become almost as much alike as ever.

They always level together tell och 23 when the Elder married; the younger nursied och 26 h wilffeelig her first child. They each married a gentleman libing in The Same house and have commented their married liver to the Same house and state live elong together.

F. alike grown of Shilliloe (Wein father 17 berg much alike in body in mind, both in childhood, girlhood, gulle and about life. They were of the same weight and height and were clother of the same fit. Their hair alger were timiter in colour. They had stimila, porous of athletic performs as in Swewrain, hadding a course, Skating and archery. Their manual thell was alike as their in needlework, sawing fret work, filling flower vase, to the table is decorating churches, rooms, te.

their handwriting a tone of voice are summental similar les not very strikingly so,

Their taxes are timitar, and districtions agood deel alike.

Their state of health demarkably alike; generally very good, except in one Much Holich the elder had very severely whilst the younger entires about the age 121 the policy became "engaged" & is now thinner than the younger so that we know them apart. I do not know from what cause their increasing defermilarity avises, but probably from external circumstances. They still remain very much alike.

always educated together & are teld on Separated; their pursuit, are much aleke un are purtue together.

F. alike in mind grown up who will be in her in heren

Griffitte

apparents the mother 18

Ouke in taste occupations and pursuet; in capacity in general health, singeneral characters but the disportant of the one is rughe calm a gentle, the other sucre ardest: In afsociation of ideas extrosuly the same, and at the same runners

not sufficient, alike in person the mentalen when together, but frequently when a party (numerous vistances are given) Seldern mustaken by those who know them in dail, life. hever mistaken by children.

Huir of identical colour.

heremblance in appearance probably quadrally diminisher, but a association of ideas it is closer a closer.

Educated always together.

Ulean the faller _ (19 F. alike in herron 7/2 Hewett Token born, the elder was latter the larger, but in a few weeks the younger had become Slightly larger & heavier, and this ad-- vantage She has always maintained The grew very much alike and there was little or no difference in any way; their hair and eyes of the same colour, those most near to them ever constantly liable to mistake them. In character and disposition they are very unlike, their taste, and habits & an difficulter. He elder is nester all more elegant in her look and . manner; handy and a good mover the younger is an awkward mover They are both very intelligest and full of fancy, but in different ways and agood sent stanter the Elder is thank and cretical, more active and find of reading the younger is more doll more affectionate & clinging, and more indulent. they are both fond of mutic and both find of animals but all animals are more attracted by the younger & pleased with her trinch & notice Their increasing difficultarity must of course be ascribed to natural (born) difference of mind and character as there has been nothing to account for it in their treatment. They know always been treated exactly alike; both were brought up to hand. They have the same muses and governages from their birth. They are very fond if each other

F. unlike Holcombe Churche When the fallier 20 From infancy they have been rarely separated even at School, and as children . visiting their friends they always went together.

The two tisters are very different in aboutly and dishosation as enjoyed und the ordinary amount of talent a abolity. When at school the kept her portein in her class theway's industry a has no tatte for muchic a drawing 21 was born a poor weak, delicate little thing; I did not their she could possibly live. As however she became stronger so the displayed an unutual amount of quickness a talent, was passionated, fond of music and drawing. She is of an active excitable lembera weat; wherean her litter is more retiring, but firm and determined.

F. unlike 15 Jevous (half a head taker than her live teller, dark eyer and complexion and long straight dark hair, quicker in willest with fair capacity for music. 2) or the other hand, is thort and thick made in figure, with that couly hair, light complexion and bline eyes, and to intelligent, with same capacity for drawing but apparently more at all for music although the was well taught in mustic, the was inthe habit of playing frieces straight through in happy disregard of thanks affair, apparently unconscious that they had any importance. Both are of the same good lember and have had except in regard t music which were quoin who in the latter case, exactly the same good education

F. untike grows who

Sanders

Lelf one of the leving 22

the two being only 4th 10" while is, is 5ft 70 a latter large made. She is fair with blue eyes and small features; as a child was extremely robust and strong but had typhus fever when about they can old and has always been delicate since. She is tood of work and all household occupations, amiable a sweet tempered. It is small with dash grey eyes and dark brown hair, as a child extremely delicate but after, typus fever oct the hes constitution was compiled aftered and the is more in very good health. The is find of books a especially of the stindy of languages, not ton of housekeeping a weather work of any kind

I should say my histoir my own character and diametricall of potent a hawbeen attends different from birth (2) is not studier of part with a very contiderable through not studier of pot with a very good confaming a paint, hard a very good confaming win natural art; tays consider a write, things a is never sarcative, in a very good confamin very aminable, quick the a stopped the wests of others. Once a bold a almost hopdenial girl the has become a timed a girl did not a bold a almost hopdenial meets the through a support of a character stronger than her ours very un-self things, questly gay a light hearted the becomes very defrested makes even a stight itlines; feels the loss of a friend and the toriour of others must acutely,

(Sander continued)

and is full of a simple and reliant faith as t religious matters, a faith to which has mever wavered never questioned.

Is in physically smaller & weaker; very timed not find of play, always reading dearning was I may say, never the least lovable time so long as it required only the mind; all kinds of nucleanical work were exceedingly distlateful. I am not realizedly numical but by perseverance are now a good numbered of work a natural latest to number has never conquered the reducents and does not play. As a child I was decastful profesents, ever new I am such lenguesed. I have fought my ones was in the world and are I may say, very self-teliant, have much presence of mind but feel things accused, when the excelement has profeed. They sisters sely completel, in me in all business matter. Have a strong but animalized lenderny I sareasm. Matter of faith not easy to me. Have a very strong will a persistence.

Funlike 11/2

Redform

from the falling 24

The external influences have been identical; they have never been reparalled and the dark increasing distributarity I ascribe to (1) developing the ontwood make and mental qualities of her faternal groundfalters and 21 the outward make and note and inward capacity of her falernal groundmother, neither of the troins being like their mother (is her relatives)

F.67

Girls alike (also partly alike) \$1.800 and mulike

COLLEGE TO WELL OF THE PARTY OF

f.69 Girls unlike but we arte beginning of fi 18

F. unlike 15 Stokes

from the Father .

They are not alike either in body is mind and have never been to (1) has always been the strongest in body, taller, healther and feeds better; she is of fairer complexion and of a more geelding desposition, willing & submitting & the other. (2) is of nervous sanguine temperament, quicker in entelligence, and holds a quitte sway over her struger sitter

from Un father

F. unlike selg Wynyard very dissimilar in body and mind (1) is the finest of mycholdren and looks 10 months or 2 years older than her twin sitter. She is fair, blue eyes, fair hair and large, like her father; always healtly, fine appelite, and when ill suffering but little and having all infantine disorders his a wild form. In mind shy is quiet, retiring, and slow but save; good letapered but disposed to be sulky when how--boked

(2) is dark, has darker eyes than any of her brother and sisters, and dark hair like her rwitter. At her birth it was with difficulty that the war made to breather & the war kept alite to the first week of her life by brandy, a very small child of her age, bad teeth and always suffering much from infantine disorder . In mind, the is quick, vivacion, forward; acquiring east, and forgetting soon; quick tempered and choleric but quickly forgetting and forgiving

They know been educated together and never separated

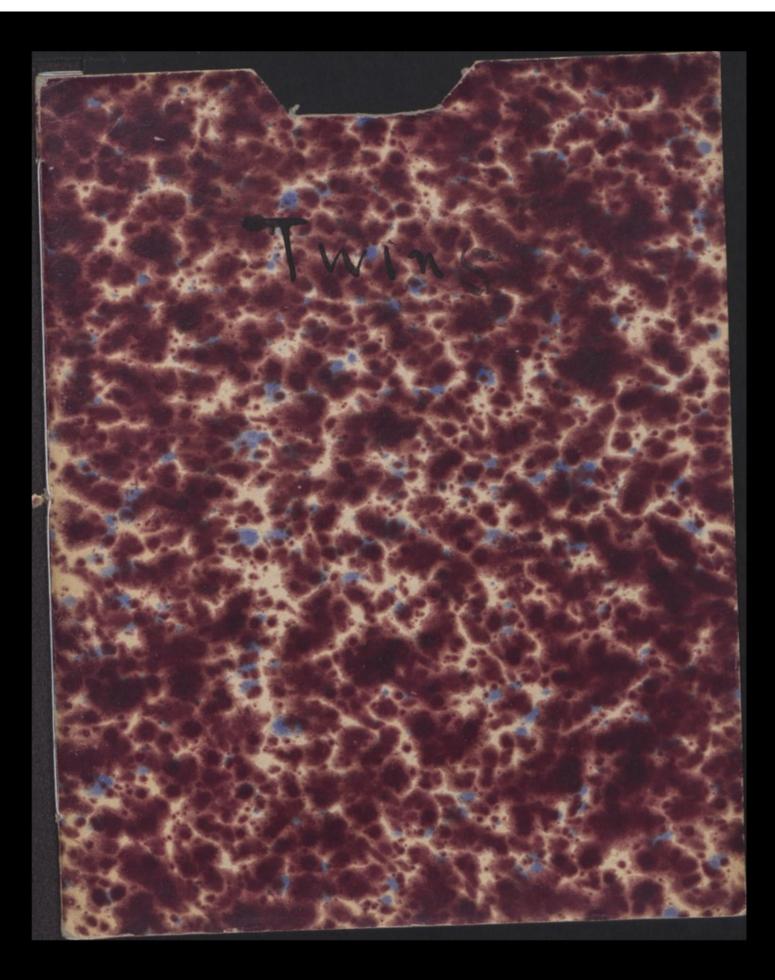
F.71

F. alike 30 Burraclough fini body and ruind nearest Whey Have always been much alike both in body and ruind nearest relations have often mustaken them Height a weight nearly on possible like house, their clother of the Same fit; have and eyer of the same colors; athletic peaces very minder, manual this rather of ferral; handwrite; and interaction of vorce very much alike; there all trades himster as are also their obsproution, and associations of ideas

their state of health has not been the same; in fact the who was the weaks, in childhood is now the stronger. Except that one of them has for 12 is 18 months been in a very delicate state of health, their regulatione is not sunch disminested.

Hundeducation & finant, have always been similar





Twing Heredity

f.Ir.

Tables

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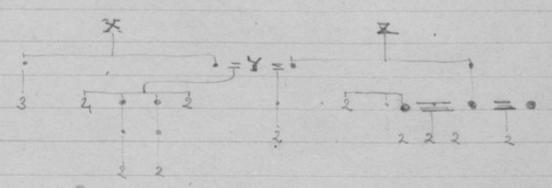
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milter sila C	1		-						
Both Sides	-	433 449 882	157	ez	5.4	Uncle,+	aunto	02 81	the, Side (paternal or maternal)
									8



Begund their, there is great disagreement in the various returns from the different modrosfery with tulins, due us doubt to the fact that the observer are stindent, a going medical men of var, various attainments, a the observation itself is I freall ou. - I have been informed that the returns of Sparett of Vienna are on highly contridered & will adobt there, ignoring the other in this occurring they are as follows

Sto . A	10-d cases	same tex	appoint by
Separate placenta	48	32	16
louis placenta, dorthe choris	46	26	20
lovined placeali, tragle chorun	30	30	0
	124	88	34

The figures in the would column are to nearly able; that we may consider that more ample thatestires would been brould then & quality a timelar that we may provitionally treat them as if the were the some similarly to the the 20 in the second good. There is no toubt about the O. according to their working

22 cases would be their difficulted

	Nof Care	Same fix	offertables
Separate placenta	93	1 Z	3 1
Tout placente, doublichmin	93	6 2	. 3 /
brined blacenter . firel chara	1 62	6 2	
	. 0	- 6	2

54/10/15 (f.2 () 688 Tivuis Some subsidiar results which I obtained in an wing concerning twin , are perhole worth recording the primary result are fines in a paper in Fraker magazine Nov 1875. What I am now going to give are a few fact about the heredity tendency of towards twin beary, and the large up of the faunties in which twin in born, and the degree tweet they thembelous contentrate to the pobulation I time ugarding 94 cases of hours find an regards hered to. that they had as follows: -Uncles and aunts on the tibe of their father amont whom there were 14 che of levens; that is, Isin 38/2 Uncles and aunts in the tibe of the motion 527 Hence the herediture lendency is the same in both the poternal and maternal sides.

Creater of the tendency, I find Jugar Untills baluable "Statistics of the formation in the lephon of collected the Wohler and Claber National Life Ofenrance Next as regards the strength of the hered tary leading. the that about of in lover 40 of the Uncles & aunty foure twins in the other hand, we know for that the proportion of hours querales to other, in the opher claper of England is 1 to 50. Heir is & hicher fortering than may perhabe be potularly imagined, but it is certain not a high estimate. Their in the valueth "Statisties of Families of the lepher , Profesional closes" & C. Andell. Jun. 1874 the number of case of hours to a handred tingle birther; that is I havin I so ordring persons. here is abandant settined and wing of their description. concerning out countries, well epitomised & Klein wachter Buy Die Lehre bon den Zwillingen, Kleinte Prag 1871. Il theretin leener that the hereditary tendency is on the whole, very weak. buly 3 of the parents in my 94 cases or 1 in 31 were twins; but I do not bee how to use their clap of fact in slate thical injurier because trois are certainly less bush for them other people,

527 Ju/121 (h.

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His ath lang to autwer their question with free time thanks to the Va the other hand we leave for the valuable "States ties of Familie, birthe thingle birthe are proportion of the chiteren of which refer to when reported the proportion of the the proportion of the proportio are moderate compared to the birth rate returns from how in hospital, the are on twins with I love too birthes now tooling at the released to find a word to find a word to find a word to the latte, they are rappend when the continued one the continued one I in 74; that is, there is one twin child for long 3h ordinary children. There is goed discrepancy in the returning from different countries who is not doubt due to the different countrients of life of their what the hour lives that defend in external countrients. The the fact that the in some years theep bear turns in abandance, do not and V. Duncan has there have a that a connecte do not, and F. Juncan has News the town begg ket my be sen the there twee and the act of the free the twin beg hit may be sen to their women are war total the trus the other they are the more age of Twin bearing mother is twin birth in sory 57 in bublin to I in Cover 158 in Naples. Savo, is also be, low. Hor.

F.4V

Hag h: 12 24	/2h:10	0
8 2.25 4/ 2.14 41	2 49	39
1.3 2%	30	24.
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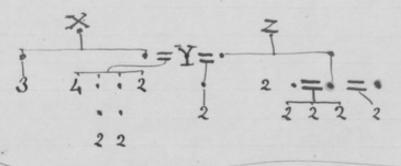
3300

GALTON LONG PAPERS NO.

In how much left and the twing are derived to be less

It with be observed that twins are derived from large families. Except the above figures, therewed that had had parent had, 5 or h brothers of testers; in other word that he was a member of a family of 6 or 7, which is certainly more lian utual. begain twins are more frequent in the lower classes the whole, and in Ireland than in Surland, whole we know the porser classes to be the more probably a the posser I with classes the most probable of all. The proposer I wish classes the most probable of all. The proposer

are occational, met with in whom it is most strongly marked of a most semantic combination of a most semantical combination of a most semantical combination of distinction of the ball by matter all but the multiple birther at the connection, links are mentioned that the multiple birther at the connection, links are mentioned that the multiple birther at the connection, links are mentioned that of the production was save of thoris 3 a case of triplets and I counted, in 3 generations of effect of the twins, I triplet and I quartet, in 3 generations



I find that the twois who have turoroad infancy are that equal in physical and mental powers to other, beath intermed my statistics their their they laced them. They y combaring that heavy half pare very decidedly above the average, where I conclude that half are somewhat above the average. Moreover an combat to uncompanies they have some event and above the average. Moreover an combat to uncompanies they same event and independent events in which the the down the occurrence of both when how a independent events in which take the down the occurrence of both when avois above the average, world testify to betwarding queral healthcall or thought. Many

Elden & Storoell had lack a levin sitter of them A well know Cambridge denin wrangles there who kinds head me returns of could mention others who have tracestill, fought the battles of life; carring there is he Bendigo the exchange the properties of the prize fichter, who is stated to be one of a triplet.

There can be no donot that twins contentrate left to the population than other people. By returns even not framed t afford an answer to these question and I can incidentally gather lowough from them to be some of the fact, also that there is not so through a tendency among twins to marry as among other people, withink however their may be accounted too; and last, that the popular bellef that about a families, is quit erroreneous. I have many in thance, to the contrary. There was the troreneous. I have many in thance, to the contrary. There was an enround about a such and the time to the tendence of the contrary. There was an enround about the sattle, that a tendence there is a surround there is a surround fact attend the series of twins, in that

There is a Secretar fact attend the stext, of twins, in that
the number of cases of twins of of horate black, is such halfy
what they world be if they were independent brothy. The start,
the Suphoris complete independence and the number of bos, I birth,
equal to that of girls (which will be accurate bough for the formations)
we thould have four hope the event count of the format brothy
we thould have four hope the event of and the circle of a first the common of the transfer the mines of the first the mixed severy amplitude of both girls. The count of the formation of the the cases of the first the mixed and the the cases of the the cases of the first of the f

he the me the children are born from different ova and are enveloped in Leparate membranes previous to their birth, in the other they an verioed from two Germinal shots in the same boun a use enveloped in a single meint rane. It appears to be a rate twiting are always of the same set white convening of the knew the hoportion then bore to the high, we could tell whether on no the fact with any that to the tends (Regnissables.) has to bouther, on profit plants is the tend of tend of the tend of the tend of the tend of the tend of tend of t I have warm believe that the reports of Chiasi Braun & Sport and again those of Shorett, which bear time internal evidence of being quite defacts from the former are to be and the former was the proposed with a result of the proposed to be agree to a literal of the diagree the with v. Siebold of they are as follows Noticases Twin of Troins of Samueley appoint bey Separate placealer 48+54=102 32+39= 71 1h+15=31 Poried placete doubt choring 6 2h+ 9 = 35 2n+h = 2h Single christ 30+4= 34 0+0= 0 140 percent Coxes Samley Theonthey dann Topler Separate placente 102 30 Jouned placente 95 69. 26 12 B & cares 2 1

haber to anthrop

Un obsect is t collect data for estimating the part that Nature and Norsture respectfully play, in forming the Bod, a mind of abults

The experiences that afford the required data are those in which -

(1) For Fidividuali closely resemble) end other in childhood; hunter reached under the same is in the same manner, and have continued to be able.

21 as above, but who did not cultime to be aleke

3, The faririduals who were very difficultar in childhood; who were warred in the same manner and retained their difficultarity.

It is among twins of the same sex that file required data may be obtained in the most trus worship a semplest form. In Being necessary of the same age they can be directly compared until one another, throughout life in their features, growth, dishouten, and state of health of the are occationally so alike as the scariety distinguishable; and they dishouten are atterly difficultar promotherly to both cause they are and after the boy hood in sirthood their modes of life forwealth, differ.



Private - Port For consideration at the first meeting Object of english Anthropemetic Committee 1th Butish apocialin Resolved at the meets & the General Clien of the 1. al Brittel 1175 That -\$ 100 at then contract. " offered as a basis for the disculsion at the first weety of the Commille - 11/5 Age (in all takings of the weatherments be -Height (aniversal) Breaker terment without those to unt a when proclicable there.

The minutes in these & of heel of those to never the with a country to the whether the with the state of the process of the country to the country of the country o Spirmeter where practicable (inthis ment wied) Vitira test (army test Number of Bull growth to be measured. It is believed that we a rough source 200 w withing - If more in attended the work w be imported to be cary through - However in schools the the thaten may be induced to measure & tabalate, or they have elverdy dow pot Ct Alt Anthropen. From of realt, and at. Apparation required . Meaning rook of deal clear mached in wither etecther, untable . It becaring against a wall. (see my blan in Centre of Journal) Herry machine untith to transmition & RS. · Spirometer a working sub-committee, with his fast in the truck to the the whole the wind the their whole the truck to the their whole the truck to britantion to be utilised.

rous, andrew (to woother) some hereart; only girl ansell.

heres - - & Blewitt - Mauley. Kersico the jouget of a facul of 19 a man applied themer his life and dly. one of as

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sing Lade Georgia Balforer to informato.

PAPERS.

Barraelough

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Bell ? X .. 11. sth. Falle, Extended from fort Hong in to have been speaked other touch to talter. Inacorder their & Herry to hatine bozacist Boduida XxXII full account of characters (rend by note)

Brandsette "Il at he alike to lay between them used to dealare they had only me let of trains between them - looking clap mistake -

× ad 12. With exactly the fame murture they are as definite as too born could be. This hold, tour of their physically, mealett, a in their Custimal realise

sirly Cane 11 set 16 constantly mustation, even by pracents - when set 13 une was disted by their morties in mistate for the other - we wen then continually taging estirel are con? In moral, the is more cargeline the other more diani, - timed. - One more quick lembered them the other - Mry never differente the one Jour the other, a look when themselves as one - on were perhaps their is that they always bleek topplies. . Believe many carriers conversable in health, states replaced, if dypenting is, mustly book by latel . - Family rabidly etimining

boy Burlon

boys Cobbold 11.7x set 23. Parent near thereth then particularly aliter but thoughts untitoth them, - at selost un was nearly caned by mustake (be coplaine). The deflecences are catalogued

girl, us name ! I loshing clap aned the.

I Cooper

no colonualio

evily. Corneils of 25. I readed relation when not facing them had eller asked which any in - Particular of resemblem cover, worth beforet. On children we ested they "Kate in acting a Jeannie will soon droft their artiments were and always translass. COLLEGE

Crawford

Junice led at herb

bogs Creed (cloudy) both married, we had a large facust, thatthe, is children. (abandand Horels) between school college. Were me cour engaged the remarried or wan tothing talkey they white the word work the other hardwards the torroussalin for that his frait; it est with the looked of . - (hund by the first) Crossified bogs with bogs with bogs with bogs with the looked of . - (hund by the first)

Crossifted bogs with bogs with bogs with the of notices of leavest cases - one of sund feelility me of sund resemblemen

bogs Dale | both dead, as at 19 the standard transfording letter - both dead of Mirith drees, (much to cast)

girly Gallison of out 4 months old.

Gerts Da very 11 of 31 in the book , left so in ruind. at 4 one was playerhed to the other voices unlike - one wire well. similar taster for runess & cart. marries at nearly the Lame time bed her helestoren. Educated by ether : carestore what of fixener they have their reflection "natures" - one will later after the father & levi

boys Dichentony apparently and very like at brieth one being delicate, Haroly the xu 11 the middle special in boy lood a good great left like in Boult lete as the always frambajored like in mind and ro-25 contlainty mittates below of the or that a left accept a respective mental of model by suporty - me a chryginal of other in engineers

we Gover Bested 1. no information - except herevity 5 Early boyaciri ulady lastlake x children of D. Mirby by his ceems who Boyaciri boulary family a critical boyaciri ulady lastlake x in no brother beste, were last norre unlike in mind leather, habits to no were they at all leter in february come (the came of every willing; then last did not live above 3 There was event defirmatarity in complexion, colore of * An auch ruther feeter 1 had 3 at a brick - all green up. not recollected about an of the 3 done the circle the other boy were as unthe as fedfer ble. 2horal girl · Falters doughting las horis Ser Bro - Vary (a consin) mor twice. a. dans if he slants 1 Albertes a had horis 3 lines not like in person. by is Kishof of Fores box - cuil. 6. don't House o had god bogs of x hour lattaker men in Mafrin boy a girl \$?, children of ker nephow good 11 of free Shift tate las Stafferd (Sir Geor Jerninghan of Safforthe II of low stark. most awfull alike Eirls. Il of het Dacolor Baird me married Lote Cole the other a Villeis Concluder first that twing occur in large families teem that thou of the same sex are most frequently alike tox we lave. * John of her Fuller

may then not lary tanalque.

girts & Fry - och h. definition in body & ruind
girts & Enskall (Holbrooks) - gonern of an mafried. very unlike; particular cevies.

Reculiantee in both developed about are flowbert.

bosh & Eurkell R. Voer never closely clike, thench their Concention
up Other age of 10 was the fame.

- boys & Evelen set 10 never reparated, never differently treated in food, clothing or execution, neverther has an illness then either her rest, both human been exceedency healthy and get they differ as much from each other a conflexion, he got, mental cast (both have good abilities) as any when of my family differ from another, redeed there is a greater unlikelied...
- Eveleg oel 20. at birth exactly alike, as the old nurse said "first lette two pear a a pod" up to d is to even the murse was sometimes at fault in thingundes, them. sourced ever separation till the fruit them, mostly aparts. Disportions by unitar, any "questing" x excitable. If late years as they became towner their characters have became more developed. On has a town decided characters have became more developed. On has a town decided characters them the the particular me have a town of today.
- gests " (Hall river) Du Cane for much after that their father, did not knows them of art I they work different clother al 15 they thered in home of informant, father for form time a he was unable to the time to both marr: a have large familie, a still continue to resemble Carl other thought. Tis position constitution remarkeably similar with x (his mon family)

bozogiel X Herstord 21 Greedingly walke, would be never taken for brother a hoter at all. boz later alla meller, sid after father

And, Il Hick od f the moon the still they have been and an now to much aleke that they can constant, mustikes one the the of the files, even when together, we than hard hittinguish. In much very toucher, very libel, appreciate than, quich a exciteable read understand boths, find of poeling a runcon for ferover of renting a training. Mean relations 1's father musters constantly have a do now with the one term this of the, (the more hasticulars from)

Einstill x never very closely alike; the limitary was that of tisten brought up torette x bear; the fame africales, not more. both man only one has a family Eirly Holomabe x og Afferent in abotet ventletaten. One is ordring the other has an unusual amoral of quickness o tatent; pessionales few

of much x drawing, excelette They married two of a trio. (Locus) 3 boys (loous) son Holewale. III often one was withelen for the other 2 girls - not Holcombe half testers, marrie 2 of the Comer trid.

boys Hope x definitary, well analysed. Simular unlike in looks reportion atastes. Stranger see a strug transpleleason their but none who know them well can perceine it. a, placed, matter Meatical, funded careful 6. Sangenine, claseral, Then handed carelest of money. a went to college x is a clergaman to then then new Zealand & now occupies an Estancin in S. deneria. Horner 11 & hear relations have mentaten them constantly Have timelar & contrevelle athletic power. Index a to Merry beg windar Elder Highty but noticeably the more received. love tepareted at 18 /2 me & Balich thother a France. Think there is no greater & Herener now then Then - Treas finde. This

It wrotes consider remarkable.

Eirly giali

bags.

Rawton, alluded to & Hull - letters sent & Barbadoes Hall at 18. 11 begundalite in mind and body and have alwaysbeam so. They are girls (west about y more so them my other four children and of a tribular lagronule of character - too the first 12 year I soldon knew which was which. (both subtace) a different expression. Noth are very convoyeous a ready to any altetic Exercise - for ball a thatering. Voices theating had dostinguestable Special taster & aboverations exactly the same they are both unusual whent player & at school examinations they good about the Saux authorn . at Camb: Weal fram - on took the of first class; the other, and 2 n 3 seconds. They are easy & Hingerichally new but marvelous, dike I dut know their pledogratels me from the The - Mente then is now an increasing securtarily the attendated to intom qualities a to the fact they alone of all my children have always agreed a tympollected with me in broad religion view.

born thatchemin sol 19. but a family likeuch and no more inferrom, tengular different in character & sixposition. The use is calma self populied, the other wichined the policient regulable a bei heart is in come a society. Und Herener in character has been observable from their carlest un pary - always brought of totaller walerays have them goes obsertenter lad the . - rather a trial the parted. he increasing differentants Judivin (seithe Iliff) I al school said the repetition for lad the v could born as be distinguished except by close examinated a grafe questing (this is becording) Cleghon (ditto) beg alike in person, not in character. one being harrh the other gutte. Iliff al 12.11 from their broth Thear and Known them apart ... and almost bour lacy me in the bonte makes mistakes about them. borrer difficulty at their very morneal their mother was unable to say in the spen of the morneal which is which . - detaits of resemblan - at reverse an cives (see last hace to) (sent to thiff) & untike in almost long recheel but very fond of Pad Files. gerty Jaggers our of heavy of the habits a tastes very closely able . The Jeffreson on the kenney I from their Carliest path always resembled bogs togs girly each other very closely in body & mind . 2, had a thyll much in her life apleasing a Hight harding he shate of thes , Such was the mas vellows semitarity of their fatures expression, voice, manner, &. that even intimate friends (requesty mustorh our forther other. The writer die daughter, cours as a child very much puffed to their resemblance and theater that had her aunt liver much with them the would have ended by thinking the had two mothers. They were of itentical height weight shope, had the same coloured hair elger the same conflequing the fame tactes the tame tatents, the latter of no mean order? . They were good muticious linquesti a writer, with a unagenation luter their in opination was latter a curse them a blefring - led on Alleen ut troubles -. au their brothers a sitten were Morting alike. They relained their therefor the last we died at 58 the Mites, still likes. - Father James Kenney the pool mother dan of Ch. Mercie, the trend dramatest - . Theoler under identical circumstances one twin would have been the exact routh of the other, difference of character there was none.

Eirls Jepopp at 17 | always to much able as trequently the mestaken apart but a, both had the same tactes baria, had better abouties tothat I frequently Said a, is a year older them &, - as infants by althe there after a, was always the layer; voices are the have, hand write, guete different They do make securlar remarker at the fame line In Much, if our wer teething or ill ofthe other began 2 or 3 days lates Eish Jeorn 15. X Gunton (shoten f by her Georges) Il a nurice marter in Manchester estes had a bogs livin brother to like that they were constantly mustaken bog a girl children of Jeones Jones " X were like as babies tol grew more difficultar in talent and Differentian as they grew up together. Our is thought somewhat choer a the the tilly is at least ver excentive in manners in theat more than a fair share of common Lease Kempson oblided of. x Tester x disposition very Soferent - particulars gener Kent middle age , Constantly mustaken the one for the other, Even now. Eirls both have the refeet of not being able town down than quickly. This havever was not born cost them but came in when they were about Locean dace laster precisely unitar; abstitut about qual; handwritis not about alike but their boice very runtas (a) is Stronger-minded & more pertitent - both originally subject to whented arthura. both of a nervora temperament Kirby not aware of any usemblance in body or mind. Lace wolling Lambton I heir parents after a thort obsence, had difficulty is diften boys - cuishes them (when ging) borce alite . at all times ever later ill together. The were done alike at Harrier or continue to mus with hothers Lawford 3. Il Gaalt aloke in all, their toboolmarters never could bogs tell them afest. at dancing parties they constant, chance partners without diseasery, trifly offerences in weight a alkletic power - Voice alway exactly dite. Close resemblance scarcel or minis he with age Both amateur Musicians - mechanician be. (? as tage - sostenty old) boyaged Lewis x alike in features but not in body - somewhat alike in mind Lindley & quete valike ia, broader built , fair (b, slighter, darkey and nine vigourous both is mind a body.

born Lesthington at 43 11 berg closely alike in borghood youth and abrilt life. Centinually mentaken by acquaintance, & foreins occasionally even by near relation on an unexpected meeting. I wish difference in height. boicen Alta murtaken (mon particulars are given) special tester hed very marked but almost entoniably trinctor Both food of mustic. Disportania beg trivilar (religion) both admire the laws fermus books to. Sheating troodly there is nearly ideality of Minish the closest blenefe was in infancy; personally idrospacracies have been lever beautifus (writing certain limits) no marked Infinite later loss of the external chromotomers, have been very time tore less we altertate therefore behenefe a unlike infittee may be perainful to natural position (here is more intuletes)

bage

Martel about subdieg. Il We ever always extremely alike, and are to more at this present rument, to rend to that my orn cluster of the 5 x 6 years old did not know on a fact. On one occasion when I returned trong freeze service a 1840 my father twomed true and town "I thought in town of Jugars. When I was my elder brother, and he had not fear me for the years. Whe head of one was rather the larger a latent. Particularly allached - both were bold at the age of to thouse writing differential but boice freezed, the fame. Except that he Hammer while I do not. I of my town to , none of his lade, much the tame but he think he hat not that he properties of when the the certain of the not are also is often reading identical remarks. Politics at the antificile, warmen with fell marked of communicated of the marked of the certain of the content of the content

Eirl

Early

Martin 11 at q. cloudy alike who to all first and up to b when one had the Scirled fever and five that time lesemblance has be creased.

boys

Mortliet II at 38. Close resemblance in smin bod, and dithornton; so noso is the abrene of one of them they are formetimes mentates to Cach other. In chithord the confision was frequent; may mentates. In school life one went tourishing from the other aid the mettern which was major a suries was a contained difficulty. Amounty beause at Cotter when one came to vital to other. Poster represents that the origin and a might, the short they that he professed ignorance as twinish the ought to allow the people. It chapted the withing

brother was rudely turned out of the Stalls by a Don sortered & feat on a surflier of the with the undergraduater. ... Sishoration & afrociation of item counterfiely alike bet the Older was more generous hat by the resigns more self-contained bauful analysis of ports of the therewere by it I time to that to the few years we have been growing more alike _ Object of years ago the brother, were reparated from of years, one being in the South fee Itlands. No perseptable & Herene in hithoration seemed than been of the Hoperstein.

New pool 55 × Inthe malkart.

bogaciel

New (children) al 24 x for the most part

boys Notcutt self stall) - x usuf facily liberal.

Oddkaur Rt | begrund alike. a sympolity seemed toget between them which was not remarked between their other brothers & theless. frequent, mittake is childhood. Firsportium families, and other joing one would begin & the others, bush a sentence

Paget od 14. X walke from their very infancy in book and mind. Their mealing endowment, and offered nather in kind than in degrees, though for the field to es It was of their lives they were rarely separated little to day in wiret.

News to communicates & Paget) and I they were to wonderfull alike that almost as the could ever distinguish believed them, and as they prevolver the continued alike white changing in appearance

bog pirt. Payme at 9 appearents a family likewife.

Pix of 54 × never alike in body a mind a robust tall find of out of lone life is, there in of just e liferent twom of mind.

Pugh Hotzas chitdren, mud alike in body and mind - differention. Similar.

Rancon + (?)

Rhode, +

Redfern X were more alike either in body is mind. The external influences have been identical; they have moves been repursted and the dark increasing defrim larity. I averable the first born bloth developing the orthogod make and mental qualities of my faller and constance the outward make and intourd capacity of my mother; nextles of them being like my write.

bornsial Richards at 20. x not at all like in countenance, but in body, well crown strong and both tall. Both lively a very effectional tome and ther.

boy- cirl

bogs

arlı

Sich

Eirls

boys

boys

gorly

Noundell at All Executly resemble each other both in mind and body, having the Same tempers and dispositions. Their own Fallies has often mestaken the one for the other. Wheel one does and sugs, the other one immediately does the Lame, Sanders st it & I thould say our characters ere handwicell Early ophreed and have been utterly different from our birth (on excellent x lung analysis) fors Scott al 15 11 strong personal resemblance from their birth. are selding recognised apart except & their most intimate friends. They have end en entire identity of feeling and affection that are angry word has never been known thop between them, their general health is cloud, alike and a day in two and they utually recover in the same order. Their was isletterace is about equal (about average) but their ideas en withing Similar, nor are the Same trains of thought apparent. Though the " features to closely usemble, the threpien is Afferent. boys Smith od 15 x most decidedly, from the moment of their birth were definites. This is shown up to the present time in character habiti and likerif. Smith at 11. X notat all alike in body is mind. They dether in tige in features, in character, though not so much intellectually. Smith al. * never much alike buserved g demonstration brought bogacial who louter watt 10. boys. Stanley while x bey unlike in complexed a character, trought of logither; remained throughout life forcy offerent characters Adeane (communicated & Starles) only. I one could not be total term the titing girl they were so alike to locy way. Circles Stokes x at . not alike in body a mind & have never been to. (a) Strongest healtheast , b, nervous, sanguine, sentian temperature, swife I untellèdece a hotor a centre sevay over a, ; a vitalles fairer a of a more quelding to thoroten remarks that Chiphenham is further in twin's and speak of an finish that twins did not altimates and so much the feet in single brills, sist Edgecatules I so much alike they a hard bu distinguished offert bogusal Neeld x also. No afternauci character u habits

with Syker I set 46 22 Noere very much alike in pertin and constantly militing by near relations to tack other - count theat as to their mentil Similarity. They were very they. a died of tearlet fever b, of committee Evils Thomas at 10. Were very record alike as infault, but had the war me was trought to head to he months older a much brighter - Little of any man similarly between the twins than believen my others of the family Thomas at & gust while, titing respectivel after faller o mother. Then Einly skew und Szempoltez Thornely at 43? | always rund alike a, more tentition is body boys and mind, but never to much to as to be mittaken & near relations bey trindar in dithorntening health. They have the Same tatte to art Note soon of other profesions to deast theuselves tot. Und interior in preiothy boys Thornely al 4h x Samparticulars an cine Villier at. Il Extremel alike attention of thrancers, but the member the family could distinguish them and they were not cloudy alike is differetion there 2, was jealous. When I was enjaged their wer terror but the lover might not distinguish in his taster; it seemed oboious that littles we have buted him equally well, they be they hid not qually like him. The Litters were most closel, attached and felt as one their fyrifically was let tous like Kefting their our hours not like Koling their other bitters. Now the resemblance is less Storting on the 4ther are married in beforest positions watefield at 29 I In feature, exectly alike of threwit time. be, intimate friends are sayetimes at first mustaken though the distinguishing much is that we over not that (in writer). humerous mistaker. Frequently walked thous with lack others friends without being detected may fact / Sotherstein former familia. Georgation of ideas ofter cornected had as remarking when the same tobject of the precise moment and or commencing the Same Long in like monner. Both began to this in the crown at the Same age , 24, & continued to stating watters al 21 11 begather a often untlater of father up to Secure delait, of definition to wen

boys ward & not in the level like, one I at 3 months bog cirl board & never closely alike; one fair the other dark ward 11 at beg much alike at 12 both in heard - body land afternant, Continue to) alike is runneal thill, handwriter differentions a Hate of health. Educated touther of 6 1h. bog- guil Wedderburn Xuntike in infance, & vontle. bon watter set 6 11 their likeness at birth and In 1 12 class was very great and even now, al except their neared relations and those friends Who are constantly seeing them have local to the cult in hittinguesting them. A dispute after arose believes their mother a nurse as h which littles of them was & the nottes has in more there was occasion given the one a role of physic which was intended butter the & rewards & furnishments have been liven under formitar liver by their parent and others - When artely in bed we have always to give a second look Even now if they at all get "neixed up" in stead of lying in their usual places. a, is more sold a has more docasión of character. White abuch . x beg little alike either in body is mind, one being very rask gush Our Than beg faces unlike in body , mind from birth. born withining clourly I alike in Every way him their infancy. Last you at togs Buston the roman at the bather remarked "they were er like as two fex" spil. ?, " - Deg many anerdotes - tower returney home from India on bear, his nother avanted him nervously a, west out to meet him by muchel brok filest & tail "o mother how one con" the refelied "no a, it a bad like, you know how anxions I am" is it was a little time before be could pertuals her he was the real man. - humeurn other lates. Both brothers were well known about town last year - beg similes is all everys even handwriting (This is the most remarkable case I haves) lockson. all Curious In Herent in body & mind time their buth as lay as they both lived. It (but some resemblances) - fames Wilson trys it was a fact which struck all our School cirater poraries that my brother as I even conflementary to to speak, in possit of about. He wer contemplation, pretical, literary to a remarkable begree, thereig great power in that line. I wan practical, mathematical, linguistic, Between

as we though have made a very decent fort of man.

Wring cares (accuganous) Perfects while in features bosocial alike in herson, but the mother said there was no sympathy Eirly beliacen them in health a spirit, Two young men. One was Subject & Spitefter fits and died during bays a purorym at 18. he other had several filt caused & the shook I his brothers death but lating recovered. Wöfel atto 1 the were both cuit aliter in structure 1 bods, feeling, hair & Pres, they used thet their uncles quel which was which a the usually mittook to for him [intir changer, lehench] Equal abilities & societas tastes. Are Hill strukingly alike. x bey dittemitar in body and mind (full particulum) Surly Wynyard



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Bucknill & Take. Manual of phychological medicine. Churchill. Landa 1874 71. quote, autice in the Heredling connection between certainforms recovers, diseases in lower Mental feiner 1872 Francis E Austie MD - lecture at local Midig lengton 57. believes thate of pacents at numeral of conception 50 "it is oboroin that ... " 50. big head of civities children a trush below of mother cause comprassion at will 2. Lee the back of tries theer Excels then poternol 65 , note on the histology her parents beg entance Saphery no hered to of sais to. I think it is wrong. The question is A being where what is the protestilet that lette, Is a C a both fleen that be also witame when the chance against any one person being witame is my soo That chance is a I take it soo against B soo against C or (500) against Ba C bot. oftele grapostosta and 500 april 18 or C, a Banc. }, & 66. Moreau tay (1'Union Medicale MESS) that body features are never transmise along with cerebral dixorder team little parent. Burrows has thought Interese the eardence given is cited & D. Stogwirl in Med Chir New april 1863. 47 sons who resembled the father inherited their busanity from it willes a of girls - wither horean thinks term of widowity is inherited. Burrows not (Thurmon afund me not) 73 Burroro's Commendaries States from Boethuis that in old time, when a Seat was affected & any hereostary disease, the was emasculated & their daughters banishes a that of any female affected & and a drieser love pregnant, the was ordered (he buried alias! Manderley (Address in 1872), is inclined (that that with one present iguerance Scewer has not will to forbid marriages - a that we will deprive the world of tircular talest a penins (see my extract from humbers) 14 morel Traité des Dequerescences Humaines Me be studied. 77. Kork referred to Sedgwick Sexui Hered: disease thed Chir New 1863 Whiteher hered. Irreire - menderleg hered leading Journal Menlet Science 1004 " A Hostichel Consancineous murioues Plin hed Jons 1885. 103 Effect of orthand in faculty 319. F. austic descriter as one of the present of intamity " Unexpected decolle 35%, very carriory account of a clancing maner in madagascar 1863 - Enote, in fort at the Spidemics of the middle ages a Hoeser's Geschichte der Epidemischen Kyanlecten' - the headagasses affair is from a paraphlet published & I Davides

392 physican t the Queen of madagarcar - I'V gives an excellent for

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h. 317 les als classes of commonaire lo 100 hersons of like conditions white comment is entaine. Father Evansfather ex grandfather (= 1/2 prents from Brothers tisters (= 1/2 (rollers efficers)	Eminent men	maine 12 (= 1/2 24)	14
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GALTON TO PAPERS NO

Francis & Anstie. Hered Tag Connection between certain herooms ducines. Joan mentat Reiner Jan 1872

471. Enotes morel 'des dégénerescenses homaines.

472. " among the received as a desire. (nel the hochest former)
479, "among the that the neurotic temperament, previous dormand in
the family, is about treather, I am alraid we much also, however,
rehealently, notice the unexpected development of intente artistic
feeling in children born of a family, who are naturally common blace
theotaxe"

40. The performance of emotional over intettectual work in the daily life. -- the most intend type of the Constrant ascending in other bear information of the shelvital lite. - occ common nearotic asthems is nearotic angume pectoris

Heury Mandedy Md. Intanty oct beatment, Pres: addrels. Jul in four mental Sevenier Oct 1871

317 reachered in exclute to reach fits originately a for certain thecial town I general to chart ordered and, thereby term faculties in about their was been town prediction to interest to us the trippelar fact. - . Indeed I with some we would know that the task of examining a telling too the how many of the great reforms of thought a actual have been initiated by herrors through the interest of the trippelar factors of thought a actual have been initiated by herrors through their interest interest when the will be the many the interest interest interest. I then the whom the the themselves have been thought intone.

31 P. He that it a with to kill the weakl, children - they may be consider

W. Lander Lead for the D. Will in the lower animals four: Went Sc. Oferil 1871 by careory faler, so for with abandant references at the lad b. 80 the hew York Times guster in Edin Soewig Courant Feb 16. 1871 describes the ofened of the owner of fur forming does - broad - bothing tast of - dring a deal of bondering be