Research into Prize Winning Cattle

Publication/Creation

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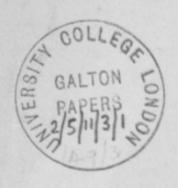
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The Royal Society
Burbington House
December 7th. 1901.

Si

I beg to acknowledge, with many thanks, the receipt of the Postal Grder for 15/-.

Enclosed I send a statement
of the value of the prizes awarded to
Shorthorn Bulls + bows in the years
1868, 1878 + 1888, as requested.

Jam, Sir.

7. Galton, Gog. FR.S.

yours obediently.
Robert Sheppard

Shorthorn Cows.

		above 3 years old	Heifers under 3 year	Yearling Heigers about runder 2	Hufer Calves over & + under 1 year old
0		3 years old £20	£15	£15	£10
Leicester		£10	£10	£ 10	£ 5
1868.	ora -	±5 -	£ 5	£ 5	
	1st	£20	£ 20	£20	£20
Bristol	2nd	£15	£15	£15	£ 15
1878	3rd	£10	£10	£10	£10
	41	£5	£ 5	£5	£5
		Cows calvea in or before 1884	Cows or Hister calved in	Heifers :	Heifers calved
		£20	1885	1886 £ 20	in 1887 £20
nottingham	2na	£ 10	\$10	£ 10	£10
Nottrigham 1888	314	25	£ 5	£ 5	± 5
		-		-	



(1) Entitle Who have a fair chance of worming a brigge on usually exhibited \$6 didlets. AFB

21 From of ment, anderived from class places

3. Values of Frecast an defendent on frest anciesse in 10 2" 23" year respectively



Bulls winners of prizes at successive ages Summaries of Bulls and Cours

EXERCIT 300K.

SCHOOL.



Name,

Ruttend Pate

Balls FIT 1865 Plymouth Shorthorn Bullony 3. more of the 1 2 years the 1 gen Md 1. 1 Lord Chancellor 1. Suke / Seometime Frax Tack Trian Bacon 2 Favorite Baron Blencoes Commander a Chief Corporal 3 1 Holwood Knight of Mart Spay Ballessea ford from (Col chin) R 4" marquis Comwells Lord Louis Lord Lovel Plyn Car ? Cambridge no list of winners 13 pt 130 Bary & Sdrumb no cattle 1069 Begin with 1868 above 3 3 th I above 2 a under 3 above 1 xm 2 Bull calves in ter! Bollivar * 1. Commander in Chaif Baron Gemeon Knight of Ul Water 2 Knight of Knowliner Charles le Beau 3 Handhuan Barn Warlaby Rosale Rnight of Crescal Cotwold Francis 12 - mortgomery N'N' Heis of Englishman General Höpervell Fra Binosto

Shorttom Bulls munchester tIN 2) 1869 above la more 1 above lander 2 above 2 unter 3 above 3 years Lord to-about Ruight of Ut Baltie Bolivar × 68 Earl of Derby Barn Clothenge Edgar + Heir / Singlething Charlie Lord Beaumont Knight of the Weestle man Jarine Rozal Broughta Barn Habback + Prince Fred 2 Res Lord Henry Oxford 1870 Bollions Bythist Robin Hood Muster Chances the Baron Hubback* Lord howint Edgar 769 Mans Estate Hey son buke Baron Killerby Magdala Tout hittel an word mand of Oxford By Duke of Bahrakan Sovereigh Res Wolockamp Edgar * 69,70 British Flag Baron Hulback 2ml Lord Irwin +70 Leeman * Cherub Telemachus Royal Wind 202 3 June Red Prince Prince charles + 345 - many estate Butter To Benger Earl of Warmin State 3 hr 1872 Cardiff Leeman *20 Rapid Hubbook Jee Rogal Wanted Ignoramus *71 Lord Triving End of Water Whe han 3" Dake of aveta Baron Colling 20 Royal Geneva Hog of Britain Prince Churche +7 Lord Napier Master Glanville Kenelm Ballertz town 1 years 3 minutes for the is an elong laining flantrithy) S-Ringgan Sauntour

		1873 H	full Shorthor	n Balls	f2r (3.
11	al	fore 3 sens	above 2 unher 3	above 1, under 2	chose 1/2, unter 1
		Telemachier	The of andi 12	Sir arthur Ingram	Las Edolphin*
-		Lord Prises XIRTETE		Newbro 4th	Sake of Genoa
		3- had warnichehm		Red Knight	Barn Trivin
		Colonist	Jack Frast	Ben Brace	and the second
	Per	Royal Lancester	Leeman 1272	Forester	Rapid Rhoul *
1					
*	1	1874 Lord 1 win 7071 7273	Sin arthur Ingrants	Low Godolphin 3	Lord Rockestle
-	2	Telemacher 11,73	Robert Spenbenson	0	Take of Chamberrat
-		Duke of ansta 2,73	Oxton Cheerboy	Rapid Rhone 13	Ranger Prince
-				aachen	and the second
. 1	24	Protector Knight Templar3	Cymboline	4.	Rogal Off gwynn
		1875		and the second	
4	1	Sure 1 ansla	Rosamo	Proneer + 050	Sake of Och
		Sir arthur Ingrain	Rapid Phone 2374.	Sule of Chambring	Haribras
1		Robert Stephenson	Baron Irwin	Rogal Irwin*	3" Bana With Eyes
		Cymbeline	Volunteer 2	Gallant gay *	Mantalini Chief
		1876	Birmingha		
	,		1		
-		Telemachus 6th	Pioner 15	Genral Futee X	1. 0
1		Sirarthan Ingram	Telemohar 9th	Charmer 24h	awarded awarded
		Hintoo Chief	Sweet Pea	Tole	THE RESERVE OF THE PARTY OF THE
-	72	Serjent Irwint	Gallant gay 75	Blushing Rose	9
1	10	1 Robert Stephens	Rozal Hearing 2	Ruby 6th	
1					
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1577 liverpool Shorthon Bully file above 1 = unter 2 about /2 = water 1 about 2 m under 3 above 3 gens Vice asmirel Fitz William Sin arthur Pagran Snow sloton Near admiral* 2 Telemadius 6 ch 16 Kalamazoot Barn Ryedala 3 Sergean Irwin's Flag of France mytton Chief Lavangro General Fred 6 4 Buke of Charlongh Bright Dake & Cartande General Flort Bolgrade nes Rambler Sa Hago trivia 1878 Bristol Kalamazoo 77 Vice atmiral masterman 1 attraction Los 2 Sir Arthur Ingone 3 General Fasce Churchell Pearl Diser Prince Victor Bunesce Winter Cowship Boy+ Scottern Buller 1 2nd 4 04/02/ Dale 10th Favorate Lord Mayor with Oforeian #
Huntley Lord Warnent autumning
1879 Kilburn
Via admirt 1918 master Harbrages Mercary Rest Royal Invin 1 anchor 707 Cowelif Boy77 Prince Regent R-Han Dovanshin Sunfil 2 Rear admirel Patricio Wild Oroman & Lord of Ryedale 3 attraction Lots Wild Freshman Red Swarter Don's County Boy Low Barlington Carliste 1880 1 Date How Men Knight of Karn Ofters Rose Prince Injurial Goldsmith 2 Viceadmita 19 master Harbings Sir Charles 3 altraction 628 79 S-Swithin Oxf. Dake Rilhow 2 Flag Officer 4 Bright Bake 77 Lord George Hames Vin Royal Wenter 19 17 Prince Lowis New Per River Crown Prince arthur Bentrick Champion take of How who

1881	Serby	Shorthorn B	ulls p3r (5
owour 3	above 2, under 3 1	above I welen 2	atom 1/2 under 1
1 Vice admiral 9,80	Lord Zetland 80,	orange	Andra del Sarto
1 Vice adjural, 80 2 Telemaster 9 h	Beau Benericht		model
3 Master Harbinger	Beau Benedict * Oxford Bakey Killhan 2	Barm Sedewidt	X
Ra' Harold	Tumper		Brian Born
color in 1876, 77 n 18	Reading		122 177
	Reading Calvel in 1879	caloed in 1850	Calocal in 1881
1 Caractacus	Lord Zetland*	Bright Helmit	Trojan
2 Osmanli 3 Master Harburger	Roser	Baron Sedg wick	Sei Arthur Ingrass 2
	Take Oneida	Harry Hotelur	Pearl Dealer
Res - Greet Northern Grown	(Inners about	Rosetale Oxfort	
note 2 repe	tetions or Inan class of	lue & alteration of head	
1883	york	champion	-a- J-01 wa
Caloed 427,78 079	calvel is 1880	calved in 1881	calved in 1882
1 Low Tetlan 82	Bright Helm 82	Self Ellean 2 mix	Acrofolis
3 Hoving ham*	Barn Sedgwick 22	Grand Ruth	Holker 20
3 Ben Benedict	Captan Boz cott	Tambour Major	Barin Mano Javon
res - Hesperus	Rosefale Oxford 22	Duked Tregusta 9	Midely
Caloed 1 75 79 1 50	calved in 1995 bur	y alast w 1000	V .
		2 4001 1 10.0 2	Calved in 1863
1 Hovingham 83 2 Bright Helm	1 Self Estien 2 vols	Prince of Donyland	Rozal Ingran *
2 Bright Helm	2 Dake of Cornwall	Sir Statford	Star of Comwall
2	3 - 1	Polar Star	Bright Andrew
Nes' Roseral 87103	Si-Robert Seal	Telol Kebir	Lord Marnhall 3
			13
			7
THE RESERVE AND PERSONS ASSESSMENT OF THE PE	THE REAL PROPERTY AND PERSONS ASSESSED.	NAME AND ADDRESS OF THE OWNER,	Control of the last of the las

Short Hom Balls f3v 6) 1885 Presen n 1004 Cabrelia 1880 or 81 Calved a 1882 Calord in 1883 Hopewell Royal Ingramey Royal Baron 1 Earl of Oxford Z Self Estern 23)84 Golden Treasure Sir Stafford In Salisbury Baron Oylord 3 Barlowitz Baron Sedenson Ruckley* Sea Caplain Conformit 1886 Nowich calved in 1885 calvel in 1884 Calved in 1883 Calved in 81 12 22 Rozal Ingram 85.85 Royal Hoving haven Golden Treature 1 Prince of Hamaby Rickley 85 Dryops nogal Arthur 2 Hiswatha Confidence (85) mellout Mas' Self Sitem 2 95 moustain Chief 22 New Years gott The Baronett Calved in 1882 n/33 Type Newcastle Calvalia 1006 Calve 1 1855 Calved in 1804 1 Royal Ingram Golden Hind Baronet 86 Ingrams Fame Royal Dalesman melton & Royal Victor 2 Veteran Hopeful Ned Princed Harnaby Prince arthur Mac Bealh * Self Concert * Britis Leveral Calved in 1883 n 84 Nolling ham calved in 1807 Calved in 1886 Catvel 6 1855 1 Champion 2 Ruckley 85 86
3 Pilot Royal Field sman Master Shapele, Self Conceil (7) Royal Saxon Iron clad* macbeth 87 melton 06 57 Fylde Ingram Roseberry Dauntlefox Golfen Treasure Sitkee Lad Res- Ariterat here to give "Commended" Hely begin

1889 Winter Short Hom Bulls f.40 7 Caloid in 1883, 84,857 Calvel in 1886 dalas in 1887 Calved in 1888 1 Mario 88 Iron clades Prosperity New Years gift 2 Royal Ingram of Red Novel Royal warrier Sir Douglas 3 Mac Boath 57 88 Flower Boy Heir of Windson Lord Freterick Mes Aristocra 80 5- Patrick Danntless" Royal Winter Plymouth 30 some, begins here Culved 1884, 5, 6, 0.7 Caloes n 1888 Patoes in 1889 " his bull chilos. Now Years goffe 1 recent of chiphapson Court Lavender? 2 Procount Pippin Prince Rupest Pol 3 Crown Prince Rob Roy Lord Fauntherry Mes Hercules Flag A Trace Rogal Roses Doncaster calved in 1885, 6,708 Calaci in 1889 calved in 1890 1. Nugget Windson Royal Evy holyce Prince 35th 2 Merry Bean Majort Claude Melnotte 3 Commander Duncan Grey Baron Bridekirk 3 nes Gunboat Donovan King alfred 1892 Warwick Calved in 1886, 7, 8, ag calved in 1890 calved in 1891 Fairfart & Chambion 1 chappy 91 Fairy King * 2 Court Lavender 20 Rosedule Farmer Broughton Lad 3 Judge of Assign Rob Roy Penda Capt Ingram Red nover

8)1893 Chester Short Horn Bulls 141 Calvel n. 1880, 9, 1900 | Calvel n 1891 g Caloed in 1892 1 Sarl Laversham Farry King 92 Royal Harbruger asterisk Czarowsty * 2 major 9: 92 3 Count haventer 90 92 Nes? Fairfay 92 Rel Trover 92 Sherlowe Duke Buccaneer Prince arthur Calvel i 1889, 90 ng/ Cambridge 1892 Caloed in 1893 Cominges 2 Court Lacender 90 92 93 Vain Probin Crarow 12 93 Champion Cafe & Joe ingram 3 Fairfay 92 93 Lord Conyers major munes to Hielsion Lambert nes British Cheer 1895 Barlington Calved in 1894 Color 1893 Calves in 1890 91 or 92 Recorder Coast Victor 1 Nontach Oftow duled Calthornte 29 2 mountances + British Chief Major munes 94 3 Maximus Sir arthur Beardal Golden Robin Neser asterisk Leicester Calvel u 1894 Caloud in 1095 Calved ~ 1891, 92 n 93 wiltshore Coast marmion 1 Royal Herald 2 Champion Cup 94 95 Bright archer 3 mountancer 95 Border Reivert marengo + The New Yorg Nest Treforest Look alend

189\$ manchester Short Horn Bulls F.Sr 9 Calvel in 1895 Caloela 1896 Culved in 1892, 93 094 1 master actesbury Master Recorder major Liston 2 Leonard Mareng 96
3 Mayimus alto*
Res Borter Riever Norse Kin
1898 in 1893 94 n 95 Calved in 1896
1 Mareng 0 96 97 misty morning
2 Borter Riever 96 97 Baptor Violor Marengo 96

Morre King Duke of Somerset Royal marvel Bapton Roben Calou in 1897 Ingrams Style millionaine 3 Princed to North Sparton Coancillor Verso Father O'Flynn Baplus victoryt Count Beauty 1899 hardstone calvel n 1897
1 alto 97 Count Beaut
2 Stephenos*
Stephenos* calved in 1890 Count Beauty Baptit Smeerow Royal Dukex 1900 Caloed in 1896 or 7 Caloed in 1898

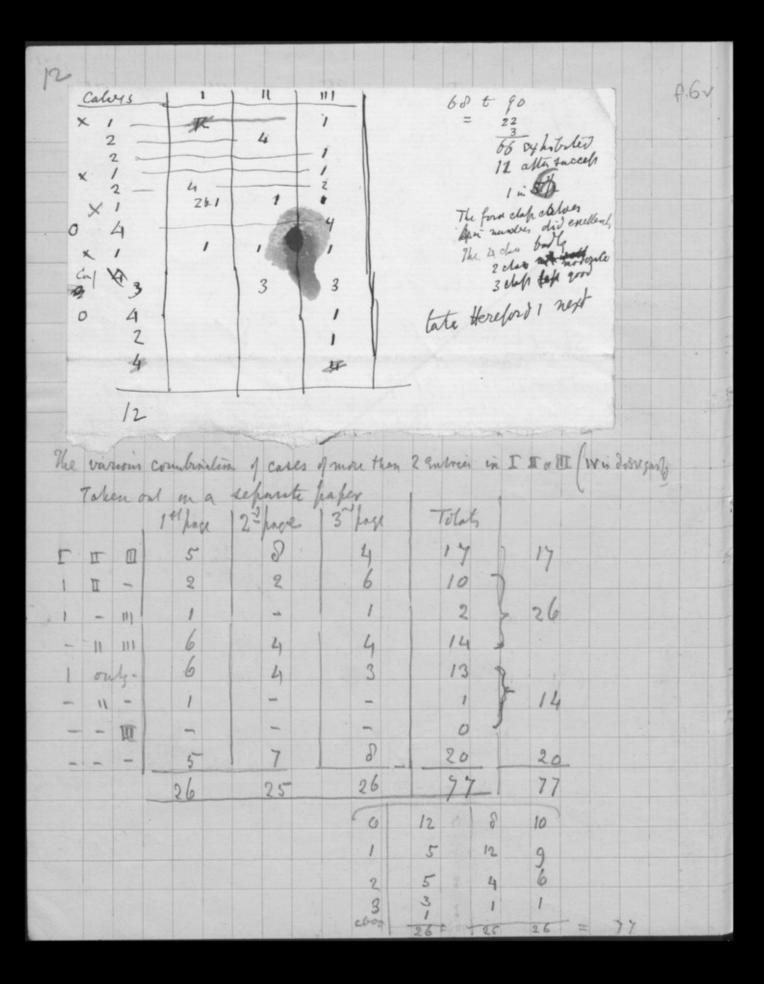
1 Stephanos 99 Royal Bruke \$5 Royal Jeweller Laventer yet Calved in 1099 Royal Norsenda 2 Lord James Bonglas, Pride of Collynie New Years gift Highland Blizzard Crystal Quality

190' Royal Buke 1000 Carolith Barin about for I

2 Proded Collynie 1000 2 Buthant Star Prince Alto King Alto 1 Sitver Belly 2 Vida 3 Insector 3 Barnis Vite 3 Jams ford right star nes Royal Sect New Ingramm Perfection Der Dale of Hameston 3

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1870	12 - 6	6	1 7	12 - 5	7	402
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3	12 -	- 7	9	12 - 4	8	
4	12 - 1	- 7	1890	12 - 2	10	61
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7	12 -	\$ 15		12 - 6	9	
,8	12-	6 6	4	12 - 5	17	104
9	12-	7 5	5	12 - 3	19	143 Turmanski
1880	15 -	3 9	1 0	12 - 4	10 4	247 markey
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Short Horn	Bulls .	R. ag	ric: Jour:	beginning with	1868 VL
	above	3 sun 1	about 2 a make 3	atope I muley 2	above he nater 1
Heir & Snelestiman	2170	68/3/		7 10 1	
Bollivar	1 1/70.	109	1/69	168	1 354
Knight of It Bath	0	2	11	1/69	168
Edger	3 3769	12/20		9	
Baron Habback	0	//	2/70	12.69	
Bythin	0 1/22 and	4/7924	3/71	1/70	
Royal Wintern	3 2/72	2/33	1/71	2/70	
Master Glanerll	0 (aged 1) 2 1/7 4 and 3 1/7 4/2			4/72	2/70
Telemachus	3 2/7/	1/73		Action 1	//
Igno rancas	0 4/4		1/72	3/71	
Prince Charlie	0		3/72	4/71	544
Tand of Warwichshir	437 3/73		2/72	R/71 = 15th	
Jaman	0		R/73 = 1/5	1/72	2/71
Duke of Arsta	2 3/74		1/73	2/72	10
Sir arthur Ingran	5 2/75-1	2/76	1/74	1/73	
Lord Godolphin	0 111 (7)	10/1/10		1/74	1/73
Refirst Rhow	0 1 V	50 (1)	2/75	3/74	Red 73 = 1/5th
Robert Stephenson	13/75	R76=/5	2/74		
Duke of Chamberry	4/77			2/75	2/74
Proneer .	0		1/76	1/75	
Royal Privin	OR/18	Design of the second	. / /	3/75-	
Galland Gay Like	0 1/1		4/76	Res/75 = 1/4	TA COLLEGE
Telemachus 6th	2 1/76				GALTON CO
Serjean Trwin	2 2/76		1./	1/-/	PAPERS 2
General Fare	/ 3/78		4/77	1/76	-



	I	1	111	1 1V (3
42 A 1	, The			f.7r
Rear admiral	2/79 5/80	2/77		
Kalamazoo	a		2/77	
15 right Duke	0		477	
Vice admiral	2 2/80/1/81	1/79	1/78	1/77
attraction Lord.	3 3/80 8 3/79			
	9/80	2/79	3/78	
Wild Oxonian	0		4/79	4/78
arthur Banedict	0 44	5/80	3/79	
Duke of How John	1 1/50			
Bright Duke	14/8			
1 1	1/83	1/81/1/82	5/80	
master Harbinger.	2 3/81/3/82			
	3/83	2/81/ Res 82:29	6	
A A 1	1 res 2 85	2/83	3/81 1/82	
	1 Res /84	201/83	(RA) 819 = 4/81)	
10	12/84	1/83	(24) 81 (= 4/21) 1/82	
	2 2/83 1/84			
	1 203-86	1/84	1/03	
49	11/87	1/86	1/85	1/84
0	1/85			
	2/88	2/26	3/85	De S
Confidence .			3/26	(2°85)
	2 1/56 nes 37			
The Baronet	0	1/87	res - 86	
melton	0	3/88		3/86
			3/87	1

Ingrams Fame o Mario 2 1/88 1/89 Thank of 1/89	1/87 res 2-87 1/88	1.8r
marbett 13/89 2/88	1/89	2012 87
marbett 13/89 2/88	1/89	
Self Conceit	1/89	
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mario 2 1/88 1/89	11/89	
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aristocrat 1 Res' 89		1/39
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Count Lacender 3 2/92 3/93 2/91 major 2 1/92 2/93 2/91	1/90.	To more Calan
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Fairfay 2 2es 93 3/94 1/92	,	6 me
tainey King 11/94 1/93	1/92	all c
Red Rover o 3/93	201-/93	alug .
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major munso o 3/95-	3/94	
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marengo 11/98 2/97	3/96	
Baptin Victory o 1/99 120 98		
71 10	1298	
Staphanor 2 2/99 1/00 1/99	10 90	
Royal Vake 11/01 1/00	2 rest	
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16 Qua In Lawren 4.8V Crim Curly her Cuntill Lady Jon 79 En Curloth We Crum

for Nod times in which a prince (1 2 3 in Reserved) was won & some ball O WH HE LITE ALL LITE HE 1 224 245 445 445 1 5 THE THE THE 15 3 144 77 / west = 1 1 4.2 worked in a separate paper 247 balls got only 1 prize 77 more than 1 prise 20 of these being more than I a dap I Total 3 2 By entre of different balls 402 Entrui allogether of the 77 repented winners 17 had a prince is Said of the 3 classes 26 - 27 Hom

18 Percerlo 460 47.9 10.5 2 100.0 Compare Cows AM back stat 1 2 fall recover fall slationery Court Lovery 2 3 2 Sisterthin Ingon 1 2 1

(From	Ruised li	51 LR454	eppard, i	2.500) , 0/0	59 91 , W 10	(19
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Care		713				filor
23 00	23 7 7	7 - 11 - 11 - 1	Y - 11 - 111 - 11 -	1 - 1 - 11 - 1 - 11 - 11 - 11 - 11	- ii- ii- I-1- TV-TI-	1-1-1Va
19 the will	38 W, M	1,77 11,1	-i, i iV7111	11,1-11,11-11,11	et spilt i, int i, it is	7,14-1,0
. 1	han 15 II, II, I		,I, T - I, III, III -	4,19,11-		
	hms 4 1, 11, 11					
48	80					
6	of Nov.	27 20 20 20	- 3 2 3 3			
· ora	Costiane, (17711)	THE RESERVE WAYNESS BOT	THE RESERVE SHARES AND			Nº 1
once	+	Ton above	THE TV	about an equ	ial chance as	Call
unce	6	5	5 7	to ours pure		23
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2	(%)					
our time	o (fall, recover	(fall)				

83/400 (3 20 £100 83/200 2.5 83/1300 (15.7 13/300 3,5 2491 Compare Cour (29) Resulti bull calves got prizes (including reserved prizes) only 18 (or 21.7 %) of them Ever got another prize of these 11 (in 13, 2 % of the whole 83) got merely a CC 2 (or 2.5%) 3 (or 3.5%) got merely an - a got two allance); two allance) got all three classes and a first flace too is sail of them she hack to the sail of them she has and sail of themes in class a and said themes tooks placed first in it 2 times, and second detimes 2 (02 2.5%) 21.7 * 3 of 13,5% get an a disregardy all else 82+2 = 4 (n 5%) get a b-

Bull calves, classed. Allr Of 83 prize warning bull calver (cland) 18 got one or more subrequest prices = 21.7 % day /4) Siranding appeared in rows the of the 3 emberguent slages 3 of their Vice as maril, Pozel Eurona 111/11/11 the ex of all of 83 x de who appearates in norther else and abs 11 (taufin) lab Ented Charles a 6 13 11 147 441 1 21.7 her and her cent 13.2 al 1 th 27.7 got C & withing slee What half of them

22 A.IIV 132 3900 (29.55 132/1000 (7.5 49 +1 entrain (C 132/1700 (12,5 49/39.0 . 796 gain a subryunt chip 132/400 (3 49) 350 1.71 132/1800 (12,9 17+18 = 35 Results bull of Class C about I rear Hil There were 132 prize winner in chap C had later a d, and no subsequent one 7.5% of there, 39 The 39 subsecuent prize winners are made of 29 6 90 7th whole 18 got a be prize x noting more 13.6% 4 got an a prize (one oruse) and no b 3.0% 17 got broth a de be prages 13.0% 18-47 gain a 6 = 26.6 %

Prize youry Balls I year Clark C (23 who qui f.12r ab W WT ## 11 39 = 0.796 % 4 1171 17+18 = 35 on 0.71% MH WH HI 111 10 donly. WI IH 49 49

24 A.RV 129 3100 24.0 129 | 5200 40, 3 129 | 2100 (1/0, 27) Results Bulls of class by (2 years old)
There were 129 prope & reserved prize-winners
and 52 of their gained or had gained artelast on addition frize 40:37 21 dudisch gain in a blitchad gained some preis response, of there 52 40.3 GALTON PAPERS

129 Prize	Bull class or had or	B all	years)		f.13r	25
The same of the sa	rur the untun			31	= 2	4%
	। भाभा भा		hat 1 -	21-		//
13/100 (7/2			13 =	1 28.	6 12	7 n 8
person to the sain	a ser 16	10 3.5		4 = 1	520	4
Desregerdin presson prizes the per-cent of prize wenters of	who gamprise		to for the	The pteops	return be	g other one
class de (colves c (1 year)	13,2 5.0	3.5	421.0	1 in yas	1 in 20	1 in 28 n 29
only 11 me		a,	je begun	mit 2	(gar)	hose
bux there were very	Nº 41	here's in 9	Later b	the 4	1	
fortown neg	prej	16	9		725	total
						A

cow not x f. 13v Laty Fragrand, Venendriene, Laty Paracle, Warfare, Jewel 2 III molly million 354/10800 (33.6% get repeated) a just about 1/3 Lates enby for new see back of stray page.

Cows (der for Bulls / 19) f. 141 No 1 ' Salvier Per Cate Nig Com The 25 once TY, II, TII, m,14 1,1 1,1 m,1 14,14 Compare balls p. 19 4 hours 4 14, 1, 1, 14 West Look Lever from above 111 1744 744 once Latest highed lower statem TT 111 221 free therice wie 11 rise slat fall Leting nee slat rise fall 5 limes

28					K	Percent	1%	f.14v
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		1/33			6	31	Ble	
					191	199,9	100	`
	13			9.0				
4	7 1	5 18 10		5 2				
14	25	17 10		14 3				
44	72 11	59 3	1	52 12				
Crate Has	Treven frag	a Had no	provin pre	id				
32	14		3					
11 108	14 5 52	and the same of th	2 +3 = 1	-				

Cows	f.15
out of 108 calver who win prize to	18 are mertin 60
Merely a C TH HH TH HI TH II 27	2 38
" ach 11 2	1 2
a,6 xc 111 8	2 10
out 1 132 herfen class C winner	Bullsh22 1 Toler Callle
merel is b MH HH HH HH 11 27	So mismos) (3)
a 1 1 6 a 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 28
out of 15 going characters to 1 129	1 24 Compare balls
out only 35 12 mover had a previous prize.	26 Jan Jan Jan 1870
the not times this took of prize being? Here of them toking more than one	2 3 4 5 Tolent 111 111 1 12V

30		Bulls	from t	th 5	owen	ul sh	eeli	* how Abrilian
13	19 ha	c d	11	a 19	15	15	d	3 sheets f. 15v
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The same of the sa	17	2/2 -	11	13	7	7/2	-	
275 50	761	83 6						279+3-
	plan	rus for	. H. 5				84	to ling abbres
14	6-1	C d		18	14		6	32
8	14	11 17		20	9	13	11	32
70h 5 241 37	19 64	8 11		20	12	16	101	108
-1(11-)		9						349

70tol a 50 b 76 c 83 d 66 275 278 353		10 de 1 1 2 4 1 1 0 8 3 4 9	1 20 am	Bulls and Con plani 275-13/16 - 241 Gas - 1 516 709	78 \ 353 08 \ 349
17 Cours Coulds	25 18	3 ha 4 h	Librated go	48 3 100 100 1 an a class	353 349 702

(reductions 3) 32 1 a celli cows did Casteristed a when were not wromen in a 33 13 18 A161 12 (21) 17 (15) 3 (9) 19 (14) 48 add pluisses 50 93 (53) who did win and place cows Of those Nº Wer won one only 25 (4)-48 48 (24) two his the गा। सा सा भार 76 13 HT WH HT 1111 19 Wice 36 MI 2 HU 11 four 8 fore 48 40 places were awarded in class a 173 places were given to 101 who gained from 1 +5 lines of there 261 " of different callle who were placed in a

subtruet of F.17 33 antecesents I winners in a my Takend Total places given in Cl militatends Total places given in Cl Cellte 261 Bally 130 30 Wither nowho had soon no previous class 10/ 0/ 18 not withday 10/3" Evan who had work a previous class come class of 2 3 3 3 4 4 Toler Told 12 18 25 31) 10 1-4 a 6 c 16 15 14 5 19 19 9 7 19 19 9 Bulls and the 3 first cour being countled their articebents bein unlenous lough, of 100 winners of place in class a no previous buil of too classes mensy 1/2 three tour

34 f. 17v h 2h aller encept of print calle of class b garner a bull 31° con 31% levire 264:1000 2:2 R= a 100 = a x 379

f. 181 70 after success of Arrive colores dus de news, 2/3. a appear no more in my lists 69 1/5- obtain our other class which always a & class 1/12 obtain 2 classes with buc larged bretowerally oblan all 3 classes a banc 100 97 tale cedent of winners of a class 26 had won nothing prevents 25 had wor once fireoronis 42 44 25. 25 100 after success of 264 price culte class C 100 68 are not mertined again 68.5 get bouls 17.0 3.8 1 02 11 14 " brandall 10.6 99.9 100 264

36 faller £184 4+1 3x1 8 Lx3 1.45 4x2 1.75 2/3.20 11.60 Common mens frine folk 2 11 4 2x2 112 2 × 3 2 41 2 1 2 11) 14 (1.45 14/28/1.75 3~1 3/3.20 (Just Hater of more exactly 16 11 × 1.45 11 10 x 0 0 10 16 × 1.75 16 28 divided & 11+10+16 Long 1.20

Class place F.10 - 37 homp 26 36 cattle who win as a class thevice First using station falls Tast entry IV 10 11 2 2 11 cattle of there who win as a class once, 48 th number 6 km It fort place third 16 5 fourth 10 7 23

38 Class	Class (1 = 5")	relative prizes	5-05	f.191
1 5 (2+2),	(1+5), (5+2)=	2 (2+5), 2, (2+0)	(5+2),5, (0+1),5	= 29 2, 53
1 (540),1,	1, 2, 2 =	11 (141),1,0,2,1	(5+2)	= 13 95, 29
का ।	=	1 53	34	= 5 (0+2),5 4
- (X) /		10,		= 1 0 3.25
	1 8 tore b- for	(2+1), 5, (5+5), 1	(4) 43	4.42 means
	THE RESERVED BY THE RESERVED BY	1(2+1),0,1(5+5),0		9,09 4.5° 2,42 2,69 5,11 2,6
1,2,(+0)	1,2		(5) 3	3.25 1.40 405 2.3
TU 1,2,	11,	1 +-	(3) 4	1.33
53+42	95 29- 21 12	+ 35 = 64 V3+ +13 25 4+	7 = 20 1+4	5- (No who caimed
4/42	4.52	= 2.56	= 2,22	0.83 relative power
19+44 = 33	16+20 = 36 5	7-4=11; 3+4=7	= 1.35 1,23	c 1.00

Bulls	class C	7 C 10	f20r 3q
\$ 575, 0, 5+572, 5 575, 575	, 0+1 5+2+5,	2+1+1, 5+2 5-	2+0 5+5+2
5+5,5+5		12 cases 90	mases 2
12 5+2+2,0,5,5,12	+5,2,5,57	2°) 8 cares 4	0 marks (3)
105 5, 2, 2, 1, 2+0,	2+2',2,1,12	+5 g cases 2	6 minh, (12)
1X 2,1,5+1+5,0,0,	0+0,5,2+1	1,5 10 cases	28 marks (4)
1 T+1, 1, 5+5, 0, 5,	5,0,5+45,	2, 2+0, 5, 5+5+5 7 cases 79 m	0 5, 5+5, 1 5,
M3 2, 2, 5, 0 2, 0, 2	5+2+1, 5,	1, 5°, 2+5+5°, 5°,	marks 19
	The second second second	AND DESCRIPTION OF THE PARTY OF	CONTRACTOR OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.
14 5, 0, 1, 5+5+5 molly mother	2+0,50,1	7 cases 29	marks (6)
$\frac{90+79}{12+17} = \frac{169}{29} = \frac{40}{8}$ 5.83	+ 57 = 97	$\frac{2b+84}{9+8} = \frac{40}{17}$	28 + 29 = 57 cath
5.83	4.41	2,35	3(35)
		=20; 14+10=24 77 1.18 1.41	
1.79	1,00	0.84 1.00	

40) Balls Class D see 2 last 1	1.20
1 5,5,5,5+5+2+5, 5+5+5+2, 5+	5 6 ares 59 marks
4 0,5,2+0,5,5,	5 caren 17 marly 3
m 1, 1+1	(6)
	2 cases 3 marky 311
1 0,0+0, 5+0, 2,5+2,5+2+0 5+5+5	5 Cases 9 marky
11 7+2,2,1,1+0,1,2,5,0,0+2+0,5,0,	17 cases 60 merts 9
TT 15+5, 5, 1, 1, 5, 2, 0.	7 cases 24 mush (8)
NO, 2,0.2+1,0,5.	6 cas 10 minks (5)
59+69 = 128 17+23 40 3- 6+17 = 23 5+12 17 2	+24 = 27 9+10 19 Total +7 9 5+6 = 13 62
13+29 = 42; 6+16 = 22; 3+8=11; 6+7 =	13 13
1.83 1.29 9.22 1	1.00

		AI	П	14	IN	Total cases
		1-1	1	TI	IV	letat ourse,
ni cla	k b.g.	4.52	2.56	2.22	0.83	61
	c 9	5.83	4-41	2.35	3.35	85
	d	5.57	2.35	300	1.40	62
		The second second	9-32	_		208
	men	53	13.1	25	2,2	
n taking 6 58 under (V)	es unit.	2.42	1.42	1.15	1.00	
GOLLEG SO GALTON PAPERS	5	2 - 2		2 1.15	1.00	
PAPERS 2 5 11 3 2	5)			1		
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43/ 0	Supposition that the	Marls are e	sail to Evez place fill
	T T	II JUL	IV Neglaca Neg Mark
nichies b			1,00
C	1.27 1.00	0.84 1	00
d	1.83 1.29	122 /	1.00
	4.45 3.52	3.10	3.00
on othe Sulpharite	0 135	1.03	1.00 (2)
on othe Supposition 141 Sun		218	200 (1)
Crick above 108	1005 11.30 hay 10	1.09	1.00 (2) are limiter
1-	(2)	19 4	taker between olarl it traft lies.
deff " 12 (5 0.31 0.14		TI
(1)	1.00 027	0,15	
× 1.67	1.48 17	3	0(+1)
fruge	25- 38	15	9(+5-)
any how i	I ghows that the forecase	1 Jaccess	is much higher for the 1-place
Ven	It the 2 ; it is higher	1 2 = Wan	3' 1 for 3' then for to "

Early prize and subjequent performances - Cattle The material dealt will supposes , what for Tendency & send of same amount repeaters, if likely time Son House from a Value of class-place, as seen in whice downs of a prigner of Calver of a then after success } relation value Number of a who had 0,1,2,00 marks as well Conclusion

Calle placed 3 limes in a (the middle in disregarded) Latest calve Earhaltenta) Lalest stat laters 打 1 22 13 1 2 24 add from 26 hope 4 lines balls I, I / TT ? Cown IV, I, IV 5- lines Cow 14, 11 11 15 tital 32 14 23:29 14:30 = 4:5

ARITHMETICAL TABLES.

Tens of Thousands, 12,3456 Hundreds of Thousands, 123,456 Millions, 1,234,567 Tens of Millions, 12,345,678		'4 quarts=1 gallon= 10 0 2 gallons=1 peck=20 0 4 pecks=1 bushel=80 0				
12 Pence	Hay and Straw Weight. 36 lb Straw 1 Truss. 56 lb Old Hay 1 Truss. 60 lb New Hay 1 Truss. 36 Trusses 1 Load. Long or Lineal Measure.	Square Measure. 144 square inches=1 square foot. 9 square feet =1 square yard. 30½ square yards =1 square pole. 40 square poles =1 rood. 4 roods =1 acre. Table of Motion.				
Arithmetical Signs. +Plus; Sign of Addition. -Minus; Sign of Subtraction. ×Sign of Multiplication. ÷Sign of Division.	12 Lines. 1 Inch. in. 12 Inches. 1 Foot ft. 3 Feet 1 Yard vd.	60" seconds=1 minute, 60' minutes=1 degree.				
Therefore.	Cloth Measure. 21 inches=1 nail. 4 nails=1 quarter of a yard. 4 quarters=1 yard. Solid or Cubic Measure.	60 Seconda. 1 Minute. 60 Minutes. 1 Hour. 24 Hours. 1 Day. 7 Days. 1 Week. 4 Weeks. 1 Month. 365 Days. 1 Year. 366 Days. 1 Leap Year.				
Troy Weight. For Gold, Silver, and Jewels. Grains 1 Pennyweight, diet Pennyweights 1 Ounce	1728 cubic inches=1 cubic foot. 27 cubic feet =1 cubic yard. 243 cubic feet =1 solid perch mason's work. 123 cubic feet =1 solid perch brickwork.	52 Weeks				
For Mixing Medicines. 20 Grains	Imperial Heaped Measure. Lbs. Avoird. of water. 8 gallons	The state of the s				
	IPLICATION TA	BLE.				
	5 1 are 6 1 are 7 1 are 8 1 10 2 - 12 2 - 14 2 - 16 2 15 3 - 18 3 - 21 3 - 24 3 20 4 - 24 4 - 28 4 - 32 4 20 5 - 30 5 - 35 5 - 40 5 30 6 - 36 6 - 42 6 - 48 6 35 7 - 42 7 - 49 7 - 56 7 40 8 - 48 8 - 56 8 - 64 8 45 9 - 54 9 - 63 9 - 72 9 50 10 - 60 10 - 70 10 - 80 10 55 11 - 66 11 - 77 11 - 88 11	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				

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Name,

Subject,

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fi2r Class 6 Just a 6 14 21 Second I'm in 10.0 there 8./ 4. 24 10.1

	Review) all) (A)		2.
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	Seen	_	3	2	5	22
	Muri	3	3	1	7	
au cattle	forit	6	5	1	1/2	
A	(ecn)	4	5	4	13	
	Vivid	7 4	3	3	10	

(all review) (B)

Bulls in B win subsequents places in a during the 2 subsqueal stars only who occupy Total HHL /I forst- place MH MI MH III 8 16 seend HI I 3 1111 1111 Hird 11 111 Cows in 13 8 11 1 1 1111 4 114 fort play 144 VI HA III 14 JHT HH In 3 m 5 11 3 11 10 third 6 3 111 117 Bulls in B wins places in lalo! ful! 8 1em Vivis) Cows 15, B 8 14 Lecas 10 Mir) awaltefind 30 (ecn) 23 ther 8

P.31

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Total Nº (Cattle in A 18 C & respressed total	
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(all revited) class Cows 0 I C 33/2///2/2133 2 233321-13/13312 033211-2311313212311223-1133-1223 B 2 --12313121121211312113221113312 976 26 -----III 1 - - - -22-1--2 I 11 13 1101 11 10 110 23 49 I to M 41 2 Ш

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On first place	place w	on mile	ucal Wal	Total,
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1 Bulls and Congress	16	3	6	
second	6	9	8	
third place	1	4	3	23 21 17

£30 m, £15, 10 x 5 (1868 x now) 7.6V 67+15 + 33×10+22×5 = 1005+330+110 = 1445 31+15 + 33×10-+22×5 = 465+330+110 = 905 455 12 x 15 + 19 x10 + 17 x5 = 180 + 190 + 85 = 2805 : 30 : a: 2 2= 2005 = 1.07 × 1445 = 15.14 2805 ₹ 300,0 £35 n £20, 10 and 5, 1888 67×20 + 33×10 +22×5 = 1340+330+110 = 1780 1060 31 x20 + 33 x10 + 22 x5 620 + 330 + 110 240+190+85 515 12 x 20 + 19 x 10 + 17 x5 2 = 35 = 104 × 1780 = 3355 = (2105) 1060 = 515 = 3355 18,5 wight 11.0 18.6 5,4 1110 for 25 10 5 34.9 5.4 1052 1780= 18.7 35.0 5 4 £45 in £20, 15, 10 Brite 78 67 x 20 + 33 x 15 + 22 x 10 = 1340 + 495 + 220 2055 31x20 + 33x15 + 22x10 = 620 + 495+220 1335 695 12 x 20 + 19 x 15 + 17 x 10 = 240 + 285 + 170 4085 1c = 45 = 111 x 2055 = 22 6 22.3 x 1335 = 14.7 14.6 695 = 7.7 444

Contented training	loter plu	per subs	days v	m) 70	lat place	f. Far	10
forst place upb A	, 6	5 1	/	1	TI		
11 1 65 B	16	8	6				Call
1 a 66 C	25	2	9			,	
Tital 252, 55 8	20	12	6	67	33	22	122
second place 6% A							
165 B							
66 C	16	15					
Told 252, 55 D	5	8	4	31	33	22	86
therd place by A	4	3	3				
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1 66 C	3	11	4				
Total 231 , 42 3	4	1	7	12	19	17	48
for fature for	izes .	1 C	only	12 110 190 190 190	3 5.6	10	
forst place in C	25	8	9	Mon I 8	4. £8.	8 aco	ocasiles.
lecond	16	16	6	- white	1. £5°.		
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first place in C	375	80	45	500	6.0 2	2.5 4.8	2730,0
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4:25 - £10 £5 Wil \$40

 $67 \times 25 + 33 \times 10 + 22 \times 5 = 1675 + 330 + 110 = 2115 21.6$ $31 \times 25 + 33 \times 10 + 22 \times 5 = 775 + 330 + 110 = 1215 12.3$ $12 \times 25 + 19 \times 10 + 17 \times 5 = 300 + 190 + 85 = 575 5.9$ $2 = \frac{40}{3905} = 102$ 3905 = 39.9

Summers from page 9 & above.

Present \$15 \$40 \$5 Total \$30; results 15.4, 9.7, 4.9

\$20, \$40 \$5 ... \$35; ... 18.6, 11.0, 5.4

\$25, \$10, \$5 ... \$40 ... 21.6, 12.4, 5.9

\$20 \$15 \$10 ... \$45 ... \$22.6, 14.7, 7.7

206 Calver in one or other of the 4 places in 8
on 54.55 in Sach of them
450.0 = 8 1 175 = 3.3 100.0 = 1,92

6 A5	90 50 50 5	454	60 50 20. 130	4 3 3	60 30 15 105	f.7b
16 186	240 80 30 350	6 95	90 40 220	1 4 3	15 40 15 70	350 220 70 540
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b 12	300 120 30 450	584	757 80 20 175	1417	10 35 105	450 175 105 730 8034
1. Parke 4		101	obs 1	94	66 56 56 56 56 56 56 56 56 56 56 56 56 5	197 197 189
	152-	93	646	3/	582	194

Class Dong to avery prize earning subsequently tee / 14 2 " " 5 8 4 3' ... 4 1 1 7 balac of prise, in \$ on th \$15, 10,5 teals 1- place | 300 120 30 450 1 1 75. 80 20 195 60 10 35 105 435/210/85/730 ± won by D in after prizes Total cares 83 ball calver 123 con 1 = 206 in all \$ 730 to 3 places and a for 1 58.5 \$ 450.0 = 818 / perhead 153.6 = 151.2 I 51,5 1750 = 3.4 N VI 52.5 105 = 1.9 51.2 W152,5 Comparison of CaD C'Enttle gain on accense after-proje wort \$ 5. 12. perhend hotwittetians, that I has one more year for after competition Wat is 4 (2A+B+C) mitered of 3 (2A+B) reducery & winning & /4 is & 17.9 it becomes # 2.13.1.

13/ Pace	1 MS	S ori	inal	Sheat	- 5 Shep	faid.	Nº-d	cases 4	in Rad	place in 8	achfu	re
13 Page	7	Bulls	wter	, are p	wend 1230	Page -	Tolat of	Cows	whome	laces a		f.81
Page	A	N	c .	8		Page,	A	n	, c	, 0,		
1	8	8	8	8-53.4	gid) Gell	1	8	8	8	S-6ther		
						2	7	7	7	7-1 House		,
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seen play							33		33			252
this place						3,	32	30	3.3	24	119	231
fourth place						41	33	31	33	33	130	250
all place								125	132	123	1511	985
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All places Bulls and Cottor -							261	254 adult	264 your	206		985
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and scale of 15, 10,5) sabring pregn #11.60 1 = 30 a = Winners of places on belows Win subsequently in 20,12,6 12 16,11,6 ,4 13 4,5,4 Very 38 181 10 161. Craois entries Duplicator par of cosernal 3 A Bolly 2 3

15 Called Alan

the de Herences in active expressed by ockafering the forst below or third in the classes about the deep leaves a factorities of height a factorities of height a factorities of height attacked with thoroughness, it will

Cattle:

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The at least one form of combetiber municipality the service of the from hage Soc for delerments of the property of the services have forecasts of timeter to consider the services have been signed abjudged for the services for the services to (1) colors 2) young the (3) afult (4) mature. Those I shall deal with range from 1868 t 1900 who wir that is during 33 years. The number of Birth of the petherefore to 33 (years) x 4 (classes) x 2 (sexes) on 264 allowellier There are shigher deduction have to be made for the occasional but rare non-award of a page a to the fact that prize to ball calver were stoffed in ceased after 1809. Here is a farether small break in It continuit I the record owing It about lessur as I have the the classes to which I have applied to name calver, young, about a making being some what differents defined at the beginning and the In of the period. at first they referred to animals yunder 1 year of agr (2) of 1 x ander 2, (3) of 2 x ander 3 (4) of 3 = aprensis lattery the referred to (1) animals born in same year as that of the exhibition 12) to those born the year before 3 , & three born the second gear before (4) Ethore born in the third is fourth year before I do not regard they alterates; as

unpostant except as regard the former facility of coulte france to complete of the traces in the case in the content of two families of the conference in the case in the content of two fears,

I was informed in good authority that the first winners at the shows of the R Agr Soc might be taken to represent the best cattle is England of that kind in the year. Saccess is so highly balued as an honor of the bear wealthy breeders of this high emportant stock that considerating of cost a precious faccesses do not deter them, from le exhibition to long as these is good chance of success and again, that the granner gain of taccers independents of the proses, are contiderable unamous as they enchance the balus of the though herd of which they below The data afford some material for texting the opinion The same animal is certainly in many cases, run year after year because they appear them after time as Jerizi winners otherwite I have not access the man lists of all the satures in which doatthe world be found the names of many when had been sent bal failed to win. Still less to I know my this It reasons that may have delived the owner from tending a

f. 112 seep 5, at bottom Bulls & Cour le 1 13

seep 5, at bottom ontorioin 186 of algoo friedway refelicions 9 83 is all a flace won & tt 246 is end or 246 entrés un sad claire place $\overline{246} = 00406 \times 67$ 33 22 when first places . 27 202 .13400 .08932 When second places 31 33 .00406 x .059 .00406 X when third places 17 .069 .048 .077 world of programmes, 15, 10,5 .344 ,446 247 11.3 6.7 3.4 1.2 6- £15 x (67+31+12=) x 110 = 1610

previous prige-wring in intrepent occations. on \$15, 10,5 seeds follow Value of a first place on the 15 10 5 scale = 1,9 \$ 1445 x 4 261 x 6 = 0.023 First place allo First- placer alloyether . on Equal lerons B 252 x16 = 0,063 C 264 x 25 = 0.095 \$ 206 x 20 = 0.097 0.278 x \$15 worlt = 4.17 £ 2505 among auto animiled ClassA = = 11.6 land

Bullo a Cons Referter Entries in Class A. f.12V In 15 out of the 33 years the 1 place man Introducted bound (1868 - 1900 wichers = 33 years First Satry Second entry at facts to get a second I more often then not. The rand frequent first Patries are 1 x 2; 3 x Especially 4, are it least treggent. Sinking 8, 1,3 · Sinking Stationer or Within and Lequi- freguet a 2 - 1 to 2 an 34 in 4 squares Stationary 9, 7, 4 3 or nevel half of the lotal 72, in 16 types Rising that is, about 3. It forming Showhere 34 11

	Bug				1	AN	+13,	ares	nerel	dul	in clo	here. The dond 22
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4.13v 380 34 19341 2964 take 300 as the unit equivalent ta 3 , 6 , 9 12 nemed series obs-teries 2) 3.8 5.4 11.1 9.3 diff + . 8 1 - . 61 + 1.2 - 2.7 Unquestimally D is the worst or viction of diffees take the following proportion (2)

The subsequent winnings of those who won a place 12301 on their first trial in Class A, or a place is 13, in in C, is into Converting the places as given in Table, , with wranings in the £15, 10,5 table, and redistributing them we find as tollow Subsequent Garnings of a place wenner is Class A Class B Class C Class D [worsed] \$ 380 \$ 540 £1110 £730 £ [934] Cases 152 against an average of 194 is the other classes This being due to the stoppinged prizes for Bull Culoes after 1829. The revesion consists in raising the The chancer of Subsequent prize win new theplace winners are I for A, 2 for B, 3 for C and 4 for D therefore if the forecasts of future success were equal in these by cases, the winners world run in that proportion C. A go closely together, B batty & Dth worst.

Corriganda add Cartiff 1868 not t court it bein inferently to reputitions toccur is I 1869 in Dy might win Allyen in 1872 68-71 wales ignore Intere 69 68.69 lanore Subtract I at head (Saldrabel Sa) Equal Rabries 144 AD 15 C D 09, 08, 99 98 97 mig8 and after 1901 How was subsequently Bulliant 1 alitics total year 1868 - 1901 inchisea = 34 years add to Bully Rioyal Dake 1/01. 1/00 Tr 99 Collynie 2/01 2/00 add town below 2/01 Warrin Quen 1/01 There is no Sigh of D previous to 1868 have subsequent warmy (is no C) me 1 D of its last 2 years having any suntary or t C

 $\frac{67 w_1 + 33 w_2 + 22 w_3}{31 w_1 + 33 w_2 + 22 w_3} = \frac{w_1}{w_2}$

11)

 $\frac{61 \, w_1 + 33 \, w_2 + 22 \, W_3}{12 \, w_1 + 19 \, w_2 + 17 \, w_3} = \frac{w_2}{w_3}$

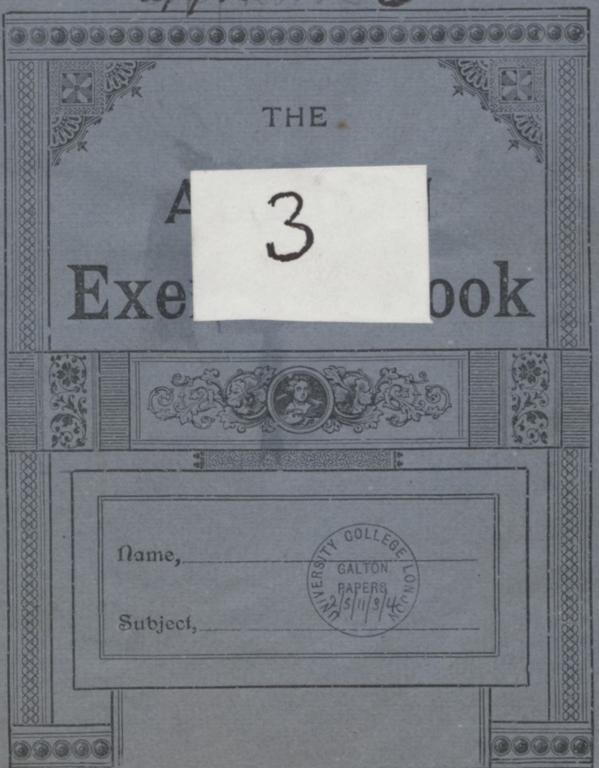
67 W, W2 + 33 W2 + 22 W W3 = 33 W, + 33 W, W2 + 22 W, W3

61 W, W3 + 33 W2W3 + 22 63 = 12 W, W2 + 19 W2 + 17 W2 W3

ARITHMETICAL TABLES.

2 10 1 11	11 13 1 1 0 11 11 1 -				
Numeration Table. Units,	Avoirdupois Weight. For all Goods except Gold, Silver, and Jewels. 16 Drams 1 Ounce	4 quarts=1 gallon= 10 0 2 gallons=1 peck= 20 0 4 pecks=1 bushel = 80 0 8 bushels=1 quarter=640 0			
12 Pence	Hay and Straw Weight. 36 lb. Straw 1 Truss. 56 lb. Old Hay 1 Truss. 60 lb. New Hay 1 Truss. 36 Trusses 1 Load.	301 square vards = 1 square pole.			
10 Shillings Half Sov. 20 Shillings, 1 Sov. or 1 Pound£ 21 Shillings I Guinea. Arithmetical Signs. +Plus; Sign of Addition Minus; Sign of Subtraction.	54 Yards Pole.	60' minutes=1 degree. 30' degrees=1 sign. 12s signs, or 360"=the circle of the			
*Sign of Multiplication. *Sign of Division. =Sign of Equality. :::: Sign of Proportion. *Sign of the Square Root. *Sign of the Cube Root. *Degree, 'minute, "second. . Therefore.	40 Poles 1 Furlong fur. 8 Furlongs or 1760 yards 1 Mile. Cloth Measure. 21 inches = 1 nail. 4 nails = 1 quarter of a yard. 4 quarters = 1 yard.	Table of Time. 60 Seconds 1 Minute. 60 Minutes 1 Hour. 24 Hours 1 Day. 7 Days 1 Week. 4 Weeks 1 Month. 365 Days 1 Year			
Troy Weight. For Gold, Silver, an I Jewels. 24 Grains 1 Pennyweight dwt. 20 Pennyweights 1 Ounceoz. 12 Ounces 1 Pound lb.	Solid or Cubic Measure. 1728 cubic inches=1 cubic foot. 27 cubic feet =1 cubic yard. 242 cubic feet =1 solid perch mason's work. 123 cubic feet =1 solid perch brickwork.				
Apothecarles' Weight. For Mixing Medicines. 20 Grains	Imperial Heaped Measure. Libs. Avoird. of water. 8 gallons=1 bushel= 80 3 bushels=1 sack= 240 12 sacks=1 chaldron=2880	Which has but twenty-eight days			
MUL	TIPLICATION TA	ABLE.			
2 3 4 5 TIMES TIMES TIMES TIMES 1 are 2 1 are 3 1 are 4 1 are 2 2 - 4 2 - 6 2 - 8 2 - 8 3 - 6 3 - 9 3 - 12 3 - 12 4 - 8 4 - 12 4 - 16 4 - 6 5 - 10 5 - 15 5 - 20 5 - 6 6 - 12 6 - 18 6 - 24 6 - 74 7 - 14 7 - 21 7 - 28 7 - 8 8 - 16 8 - 24 8 - 32 8 - 8	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	9 10 11 12 TIMES TIMES TIMES TIMES 1 are 9 1 are 10 1 are 11 1 are 12 2 - 18 2 - 20 2 - 22 2 - 24 3 - 27 3 - 30 3 - 33 3 - 36 4 - 36 4 - 40 4 - 44 4 4 - 48 5 - 45 5 - 50 5 - 55 5 - 60 6 - 54 6 - 60 6 - 66 6 - 72 7 - 63 7 - 70 7 - 77 7 - 84 8 - 72 8 - 80 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9			

Copy Book 3



From the series copied out by A. Frenk B 1-4 Talenoul firm the Ms. Sabtoguest places Comparative ments of different scales of prizes . 1 42 Contests

Bulls	3 · year	1	st	Sul	beg	nent	pl	lace	s in	4.	4	f.2 ear	1
page	place					2 -			3 -	1		4:	1
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	Third	1		1			0	11		2			0
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	,												
Cows	place												
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	second			0	///		3	/1		2	1		1
	Third			3	//		2	1		1	,		1
	fourth			2	11		2	1		1	1		1
Bulls	,		1st			zad z			gad			4.2	
	fist	-	6			4			. 1			1	
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	third	1	4			2			. 3			, 1	
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		1						,				
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,	fist		9	1		1	M		5	1		1
	second		-	THE			11		2	THLI		6
		1	1	III		3	111		3			0
			0	1		1	11		2			0
	+ Cows							1d			H	
	place	1st			z ad			3 rd			4.	
	first	_			7			7			3	
	second				10			8			8	
	Third	2			4			3			2	
	fourth	0			1			3			2	
(V	27			22			21	1	70		
		1										MARKET

		Subse	que	nt	place	s L	n				
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	X463 =15-	1 6/10	1 h ts-		
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8	600	250	115	965	20002
	1		GALTON SO		Kana I

UNINER 1000

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	second		6	8		4	5		4	5		8	9
	third		4	5		1	1		5	6		1	1
	fourth		21	3		3	4		3	4		4	5
	,			40			25			23	1 8	8	

or Taking the middle lety as ite × 1000 = 1.05 步 15 10 9.50 4.75 30

hm p.11 Cf 62 3 Louner of wir subsequently on scale of \$15 = \$10 \$1 forst blace first place | second plan third \$1110 w ABCRD Tolat \$ 1525 Tolat \$ 950 Third place 14 210 Tolat \$ 460 grant total 22935 1) From h 12 Total subsequent winnings 13 (60 A + + 60 B + 60 C) on th £15,30,5 Hall = 29 35. Reprises of their were 3 (60×(15+10+5) = 1500×3-8400 2935 = 1.84 Let W, W2, W3 = true world of a 12 3 fles 1.84 x 15 x 180 = 27.6 x 180 = 4968 = 74 W, + 34 W2 + 25 W3 1.64 ×10×180=184×180=3312 =31 W, + 31 W2 + 23 W3 1.84 x 5x18 - 92x18 = 1656 = 14 W, + 17 W2 + 16. W3 16. W3 = 1656 - 14W, - 17W2 ×1.44 2390 - 20 Wy - 24 Wz 23. W3 = 3312 - 31 W1 - 31 W2 value of forecast is tabujus gen DEC & BEC wastwall to give away of It of Michans constitut to x to an feculier belight average gan is the in one hind it ought the doubt a 2 histories of let in see how it slaved

l hill ship			
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-260×15 = 3900	win	1525	2,57
260 ×10= 2600		950	2.74
260 x5= 1300		460	2.83
	2	935	8. meg 2.71
propage 11. 0.376 × 260 = 97.76 to 2986			
from page 11.			
0.376×260 = 97.76 80,986	7: 6		
(1) 98 w, = 74 w, + 34 wz + 25 wg	= 1470	18,5+11	.6 +35=66
121 98 Wz = 35 N, + 31 Wz + 23 W3	= 980		
31 98 W3 = 14 W, + 17 Wz + 16 W3	- 490	14 00L	LEGE
		GALT PARE	ON TO
,		GALT PAPE	1000
(my) 24 w, = 34 w2 + 25 ws			/
funger (35 w, = 67 W2 - 23 W3			
	$\omega_2 = 39$	W3: W=	1.86 W
33 1/1			
1 00 11 (14 10/ 1/)			
from (3) 82 w3 = 14 w, + (17 x 1.86 + 16) w3		W 2 1 No 1	.86
$35 w_3 = 14 w_1$ $w_1 = \frac{35}{14} w_3 = 35$	2,5-02	(23 /	00
1 14 3	,		

Comparatise ments of dofferent 74 ×15 = 1110 34 × 10 = 340 25 × 5 = 125 1575 15.8 35-x15 = 525 31 x 10 = 310 23 x 3 = 115 950 96 14×15 = 210 17×10=170 16×5= 80 460 4.6 1845 820 320 2988 2985 30 xa + 4.6 = 100 x 101 = 15-88. 9.6 = 301 ×10×973 35=20 +10 +5 19.0 1480 + 340 + 125 1945 700 + 310 + 115 10,9 280 + 170 + 80 530 5.1 2460 +820 + 320 = 3600 350 380 = 100×97 45=25, 15, 5 1850 + 510 + 125 2485 24.0 875 + 465 + 115 1455 14.2 685 350 + 255. + 80 6. 9 320 3075 + 1230 4625 450 455000 = 1000 × 97

Suma .123 vicinis prize ×10 = 340 ×5 = 125 30 × ×15 = 1110 19121110= 11 19 1480 × 10 = 340 ×5= 125 ×0= 2045 1850 ×15= 510 ×5= 125 ×0= 2485 1480 x15= 510 x10= 250 x5= 2325 ×30 = 2220 ×20 = 680 ×15 = 375 ×10 = 170 3445 Sum of original prices : told Salton wenners Sum of original proses & a lotal sabses wornings 1570 xa = 100 x legt x 1710

-11	12	2-	3~	44
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2	35	31	23	20
3	14	17	16	7
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mas	20	15-	10	3 1 70
	1480	510	250	85 2385 22.94
	700	465	230	100 1495 14.4
	280	257	160	35 730 7.0
	240	165	160	75 640 6.2
	2700	1395	800	295 5190 519.8
500	= 1000 = 9.63			
2190	= 1000 × 9.63 Pmp, 30	20	15-	10 75
2	130	680	375	170 3353 33.1
1	050	620	345	200 2215 21,8
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3	960	1860	1200	590 7619 75.0
	1000 = 9.86			1, 11
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Contents h 2 3 m A Mendmens (- cend / 3, 4, 5 in C 3 for 2 23? - see Teble 2 for general superiority Jegar of meril sog a borse sheet a B 4 Forecast Tables 4 misses

h a					toleulale 15 8 h.	
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This	210	68	64	14	356	
	180	22	64	30	206	
Hillen 1	Gain su		place in third against.	Il fur	(v loka) (third o fourth
Fort	108		43	1	74	8 5
9m	31		23	12.	5-4	54
Frank	23		31	1		

7able

Holden		team)		-	Fren 1203 Print money
Ford places	74	34	25	17	150133 1575
Second	35	31	23	20	10989 950
Third	14	17	16	17	54 47 460
Fourth	12	11	16	15.	54 39 370
* celculate	a) at the	Woul \$15	Tafire	(place &	10 frasecus

The relation between prizes abready earnest and future prize-earning capacity is clearly shown by Table. Whether judged by class place or by cash, the subsequent gains of first second a third places are roughly as 15, 10, and 5 and the distribution of the prizes in those relation bathes in felt justified as round numbers, it justified.

as figures of absolute merit as a somewhile lower level that the throughless But a much nearest approximation would be the allowing to the fourth the which When protracted, as in the figure he fall into a reasonably shaped Coroc that allows when merit horocoer small they 4th and be minimon than the 4th, which the 15, 105 scale does not. The cow hally mullicent gained only as 4th page place as a heiter, tool the obtained first places in every other class have failed in Day goes into when older ansimals Else the instances of first prizes con by big tetherte was Cattle whose names had notoes appeared or the projectest could harty know been accounted for

he ledden of a first place are more them twice as likel to gain another from the in a tabuqued gear than those of a Second, and these than those of a turid the proportion berg 74. 35 14 the holders of the Third place have better, but only a title By groupin, the figures, as in Table , the firsts or tecinis taken tocether are more than 3 time as tracesful in noticing the forther of your against 54 He holsen flack closes a figures to represent the relation worths of first second by places. In fact the newst arrange have a system of priver of our war, that shall be justified by the observed subsequent successes the arnal frages of \$ 15 to the first, 10 for the second & 5 ft the third a nothing for the powert there below is a very face distributer.

I proje money, but does not quit sail our prospers

GAL

16										PAP
	16×	18	×	1	44		1/2;	×	1	
	74 = 11	84 3	4 = 27	2	25 =	100	1	7= 3	34	1590
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na, not, nc, nd are the prizes to healther 1-12 83 4 is k= a+6 l= c+d the tec p. 13 174 K + 85 L = K 85/2+120kl=54k2 make l=1 15 nl=1 nn= = 54 k2-120k = 85 k2-2.22 K = 1.57 k2-2.22k+1.23 = 86.25 k+1.11 = 9.27 k=1.16 9.77 = 8 15 k= 86/ (a+b) = 8(c+1) a = 8c + 8 - b - (1)74a+34b+25c+17 = 150 a substitute 18-6(1)
35a+31b+23c+20 = 109 b 3 kaping (592 c + 592 - 746) + 346 + 25 c +17 = 1200 C + 1200 - 1506 1280c+280-356)+316+23c+20 1096 1200 G - 150 b + 1200 6170-406 +609 = 109 b 303 C-385 b + 300 omitte 2 devenal places 673 bc - 44 62 + 6646 = 3336 - 455 6c+3336 C - 35756+48762-35756 + 3600 + 450 + 3600 divitetly 330 bc -354 62+ 3276

218 6c-4462+6646 = 3336+3336 c

- Torrection to a exercise									
74 1073 35 50.7		8.5×		415x		135			
74	1073	34	289	25	113	17	26	1501	
35-	50.7	31	264	23	103	20	30	904	
14	20.3	17	145	16	72	7	11	431	
12	17.4	11	94	16	72	15	23	363	
	14+			£.	41	7	63×	Total 30	14
74	= 1036	34	306	25	100	17	57	1293	7
35	= 490	31	279	23	92	20	60	921	1
14	= 196	17	153	16	64	7	21	434	1
12	= 168	11	99	16	64	15	45	376	
	1890		8317		320	1	177	3224	X
	142					-	3.15×		3
	1036		306				54		
	490						63		
	196						22		
	168				60		47	374	
100000			' /			•	,	1	

If the total forze money be maintained at \$30, \$ if the our rough forefores the several forzies are the integral numbers and if 4 forzies are to be quien, the values \$14, \$\pm q\$, \$\pm 4, and \$\pm 3\$ will satisfy the observed facts quite closely enough to rough furfixes

In a little	Jain places as believe !			as sodenleted & the several scals				
below Rlases			£15,10,5,01	as)	£14,9,4,3	Shiller		
First			1575	15	1493	14		
Seon			950	10	921	9		
Third			460	5	434	4		
Foral			370	0	370	3		

anne L Vearson / March 3. Seplanti might & busin best why I placed the introduct of m classes each of the same number, or, of individuals, to that m = na. New the averangement being tach inch Had the septe which encloses the classifiction a series
of perfected to agreed grades of first batholity, it followed

from crain termine, Symmetry that wash within Encl class
with he sent tearly statemen; that is the fland

from one another at equal distances; In the was alone wond

series of individuals would form his regularly disposed agray Each

at aqual distance apart him his regulations hold of thes I such class would be the most suitable refrescolated the course who be at the point where to de interesting of the influence of the water contained in the influence of a continually in a sularge of the parties of a confinually of the parties of a confinually which the foundation of a confinual would be half which the true the pointion of the industrial variable be half It I was it a preisin that such the that bound whom water we coat faults. I mean that was welden the vities continued that but the like

ARITHMETICAL TABLES.

Numeration Table.	Avoirdupois Weight.	Imperial Dry Measure.					
Units,	For all Goods except Gold, Silver, and Jewels. 16 Drams	4 quarts = 1 gallon. = 10 0 0 2 gallons = 1 peck = 20 0 4 pecks = 1 bushel = 80 0 8 bushels = 1 quarter = 640 0					
12 Pence 1 Shilling . s- 2 Shillings 1 Florin . 2 Shillings & Sixpence 1 Half Crown	Hay and Straw Weight. 36 lb. Straw 1 Truss. 56 lb. Old Hay 1 Truss. 60 lb. New Hay 1 Truss. 36 Trusses 1 Load.						
10 Shillings 1 Half Sov. 20 Shillings, 1 Sov. or 1 Pound . £	Long or Lineal Measure. 12 Lines1 Inchin.	60' minutes=1 degree.					
Arithmetical Signs. + Plus; Sign of Addition. - Minus; Sign of Subtraction.	12 Inches 1 Footft. 3 Feet 1 Yardyd.						
×Sign of Multiplication. ÷Sign of Division. =Sign of Equality. :::: Sign of Proportion. √Sign of the Square Root. *\text{Sign of the Cube Root.} Degree, 'minute, "second. .:Therefore. Troy Weight. For Gold, Silver, and Jewels. 24 Grains1 Pennyweight duct. 20 Pennyweights1 Ounce	mason's work.	Table of Time. 60 Seconds					
Apothecaries' Weight.	brickwork.	Thirty days hath September, April, June, and November,					
Por Mixing Medicines. 20 Grains	8 gallons = 1 bushei = 80 3 bushels = 1 sack = 240 Which has but twenty eight days						
MULTIPLICATION TABLE.							
2 3 4 5 TIMES TIMES TIMES TIMES 1 are 2 1 are 3 1 are 4 1 are 3 2 - 4 2 - 6 2 - 8 2 - 8 3 - 6 3 - 9 3 - 12 3 - 4 4 - 8 4 - 12 4 - 16 4 - 4 5 - 10 5 - 15 5 - 20 5 - 6 6 - 12 6 - 18 6 - 24 6 - 7 7 - 14 7 - 21 7 - 28 7 - 8 8 - 16 8 - 24 8 - 32 8 - 9 9 - 18 9 - 27 9 - 36 9 - 9	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	9 10 11 12 TIMES TIMES TIMES TIMES 1 are 9 1 are 10 1 are 11 1 are 12 2 - 18 2 - 20 2 - 22 2 - 24 3 - 27 3 - 30 3 - 33 3 - 36 4 - 36 4 - 40 4 - 44 4 - 48 5 - 45 5 - 50 5 - 55 5 - 60 6 - 54 6 - 60 6 - 66 6 - 72 7 - 63 7 - 70 7 - 77 7 - 84 8 - 72 8 - 80 8 - 88 8 - 96 9 - 81 9 - 90 1 - 99 9 - 108					

Asi in Shift life as a quaranteery The recor four: It Rage: Soc contains materials that que enably the water week be assisted at is the value of prizes I mecess in later life maturity. It has been the habit processes may seen past to alinder projes at their agricultural Shins their are high estimated hose to Shorthorn cattle and of especial interest because on accounted the number of entires att importance of the treed. le a rate 3 preses have give annually to a fourth name or astel as a recorde, to early the following classes of them, & butter of 3 or such reas old 12 x 2 rein of 3 or such reas old the following and calves. Sentent on 1 Bulls. So for Sail year there are XX 32 selected cattle a thise hast been going in without a truster feare 1868, in dary 34 years, afforting a prima facil collection of it 1088 selections. But his is not because guto Aulfad the bruges to bull intoer ceased after . and the criterion of age wer mortied in . Such then the classe, have gone and by age but by year of birth they to the fireset y and the class " he tranted) to 3 or 4 years to that no animal can que mo be placed oftener llean twice in the a class, and the classes have been befined & year of tritte not be age they with present sear the calors divere there born in 1901 a lover those born in 1900; by there born in 1899; and a thre born sittle in 1890 n'97. X The Hearney is not introducte a signal theory 66 264 alog your textogonon mature



De of the fort their I want to make clear a that the war nomen of an animal who has won a flace in a youth fut class is by nomenon content with his laurely but will reen him again a again for the Hest classes of he thinks he has a too chance of sacress. " Contributions I cost a distance and fittle weight with the wealthy owners; Ewhom a place in class a aft to the value of the while of his head, wrefrage the outlay. took, Bender the owner of persone start are would too weathy persons who boast to the honor & story of the thing & would not allow cost of transport to destry the chance of woming a prize. The sordince t be obtained from the returns in the frequency with which Battle who was achieved glaced in a were against sent up, but of 100 different cattle was win of an a place more than half won it refealerly. In two cases it was won the left than 4 time of by the same aminal Silesten Lagour & the Snow flake in one case it was with 5 times by the Wave of Look Leaven. All late the possibility of competing is to has (as aloned remarked) been limited to 2 years, but the depetitions continue, notworthstand that the place of the show in yearly changed from one part of the country to auther, shows, that the question of distance, has little weight. they at to when the chance of emproon their place is as 16:11 by 1/26, per Table of 3

The values of the prizes one \$25 to the first two the seems a \$5 to the third a sad class. The fourth want receives nose autif he replaces a vacany. Thus in 1888 the second, ancust Tashion, Became in sligible to her place we taken by the third without the for the beauty water to there 13th; The belong a first place is farthe endeanced by the establishment latterty of a therefore Prop of \$20 which goes to the best ball of the year with necessarily but atach I class a . So the balue of the awards un i the order of 5(+4), 2, 1, 0. The differences I merit, as expressed by super numerous meter does not however seems the to good. here were 3h cattle when won a place in a on two occasions, in 10 cutes the teens attempt was weether was nor less successful those the first, in 11 cases the animal fell one or more places and in 1h cases it was . See Table galler from their first that the class, place is a fair creterion of the relation merit of the animal and secondy that the differences in condition that may occur in of (1.19) flow read 1/4 place. Thirty that there are an anish an sent up a second time, in whom the chance of improvay their class place to that of worsening it is as 1h: 11 say as 1/2 t /

\$ 3 5 5 4 \$ 2 2 3 3 8 1/ 12 3/6 / 10



We can at all events calcutte the value of the prices that wires in the several places of each class have obtained, 1 premuly sad as they will besently obtain supports a continuesce of the present conditions, lo equalise the data I shall accept no more brange a a thea the present arrangements would justify. I will the friend to the to for the to for the the the to for the then combing the Bespectian writing is b c and respective of ander I II III x IV respectively the result in I are as in Table . next take the project to £1 for any one of the four class places, the result are as in Table To make there more comparable reduce both of them to unto un which the resultant prize for TV athal by the unit Uni Sisis the firsterlines 1 (1) I. 242; II 142; II 115 IN 100 (21 148 117 103 he both there extreme supportions the forecast of fature faccess is much higher for a first place there for a second, it is higher to a second that to a third, and distinct, higher for a third than to a fourth. Then is not material to learn the true figure of merit to each place begand that it lies somewhere between the limites values and is not Witamber will 1. 2000 II 100 II 100 100 now the sufurnamery pearle to next about \$10 loo! 1 £ 20 o when both a clover fot. Mongh 15 100

£51

GALTON PAPERS that only It first 3 shall receive frije, achievement is winning subsequent price. The fact can the forty on by all three is 5 x 40 6 = \$ 91.25

Subsequent winnings of frize cattle in Classes.

A3:dy, B, C, D, calculated from Table on the \$15\$10, \$5 scale

260 winners in And B.C.D	Win subsequently	Total
260 winners in And B.C.D	\$75 × 15 \$34 × 10 \$25 × 5	2 1845
	\$35 × 15 £31 × 10 £23 × 5	
7,000	* 14 × 15 \$17 × 10 \$ 16 × 5	2985

improved and copies



		win de	brequen	r place	o ii		Repart is f.7	
_ au calte		7	I	TI	10	Total.		
First place in	a	6	4	_	2	12		
Ju . L	6	14	9	7	3	33	L.	
1 / " / "	c	29	8	8		52	tegeodei,	
V	d	20	12	4	76	42	52/2 1 11×111	
Told mabero		69	33	19	18	139	J 15.12 1 121 15.1	
Seems place in	9	3	1	2	1	-	1 76 109.5	
	6	6	10	9	87	33		
	4	14	1/	5	1	31	1 1 150	
	d	5-	5	5	4	22	6/239 1025	
Total		28	27	21	17	93	10.08	
There place in	a	4	2	2	2	10		
	6	2	3	3	3	11		
	0	3	11	3	.3	20		
	d	4	1	5-	1	11		
_ Total		13	17	13	9	52	5.04	
Fourth place in	a	1	2	3	2	8-	284	
	6	_	1		1	5		
	2	9	3	3 6	6	24		
	d	2	3	3	5	13		5.
Total	1	12	9	15	14	50		

No of observed combinations in the first four class-places \$8.

That won by Mature Shorthorns in two successive years occurred to the first four class-places \$8.

Place on	Place	Place on second trial						
first	First	Second	Thord	Fourth	53 (72) 19			
First	7 (9) 2	5 (8) 3	1 (1)-	2 (3) 1	15 (21) 6			
Second	4(10)6	5(7)2	4(6)2	1 (1) -	14 (24) 10			
Third	4(4)-	3 (4) 1	3 (4) 1	3 (3) -	13 (15) 2			
Fourth	2 (2)-	3 (4) 1	3 (3) -	3(3)-	1(12)1			

	The	4 1	much as	there o	n Ner	resco	-	ASr.
Total	Winners		Win 5	subseques	itly		behad	wanting .
who are	of		forist places	places	third			to, Asal.
66	first places in	Α	6	5	1	12	145	
65		B	16	8	6	30		4/10.26
66		c	25	2	9	42		2.5%
55		D	20	12	96	38	Average	per hear fall compets
252	Totals		67	33	22	122		
66	second places in	A	4	50	04	13	1.30	
65		B	6	9	8	23		00116
66		C	16	11	6	33		(E) (OK)
55		D	54	8	4	17		GALTON PAPERS
252	Totals		31	33	22	86		PAPERS OF PAPERS
63	third places in	A	4	3	3	10	105	
60	J.	В	1	4	3	9		
66		C	3	11	4	18		
_42		D	4	1	Z	12		
231	Totals		12	19	17	48		
					/		256	

equest winnings & Calculated from Table 1)
on the \$15, 10, 5 scale P.OV Subsequent were subsequently 260 winner i ANGO \$74×15 \$34×10 \$25×5 \$ 1 1575 15.8 £ 35×15 £31×6 223×5 £ 0 of \$40 1/20 £14×15 €17×16 616×5 € 3 30 = nearly 100

Comparative merits of various scales of prizes.

	Continue of the second	to first	to second	to third place	Total
1.	Scale of prozes, in £. Ratios of subsequent winnings	15.0	9.7	5:0	30
2.	Scale of prizes, in £. Ratios of subsequent winnings	20.6	10.5	5:4	35° 35°
3.	Scale of prizes, in £. Ratios of subsequent winnings	25.0	10.0	5.0	40
4.	Scale of prizes, in £. Ratios of subsequent winnings	20.0	15.00	1000	45

har been reacted

Prizes as quarantees of subsequent success Treiorita)

f.12 (Cally cuito ble for my purpose Than established ted predomin and 8000 accuratel m that The novery - Thus though number of each Show may They are The faithful the of the of description m their dese This subject

at more length; In in the meantine will roughly state what I propose First I have to explain how a figure of merit can be arrived at, that is appropriate to the 1st 2nd & grd places respectively in the various classes: so that it is groups of animals gains between theren, 10 first places, 8 second, + 11 third, while Smilar group of animals of first, 6 second of thered, be expressed by two simple nutrulers. Lasth I shall show the walnes of prizes lawarded to carres; to cattle in their 1st year; to those in their 2nd year; to those in their 3rd years; as quarants of subsequent success, that are I must begunty explaining the nature of the materials to be dealt with. Prizes teen given annually to bulls & cows tose ages, are not strictly identical turnitate first, count was made from the date

of the animals, afterwards from the date of year of the exhibition. again the no; of mizes, has not been strictly uniform of the 1st grad, & 3rd places, while the holder of the 4th place was mentioned as a receive animal, in case of accident to one of value of prizes other three. materially aftered pourtine time dasthy age of the older animals has great varied at first, there was but in every pustance animals of the 4th year were eligable to wantete in class. This by sacrificing The first a fairly I homogenion of each year under the classes A year; a first year tractically in the ist four of there C fist year these are tractically equal in numbers thes awarded bull (capies ceased in 1088. By made

Eaising the figures that refer to the Calain e catio of 127! 100, the pancie of numbers in D is Elmedied. returns with wh: I deal range from 1868-1901 inclus: i.e. over 33 years. but before that date no telums were published I began with 1568 because, 33 years is clearly wravailable, because 100 "subsequent success" is possible. This leaves 32 years of wh: avoyedly there is room of the end the series. at the beginning showed that the risk of evidence however ing Them was extremel error through not small, + T have charegarded that risk. In some cases a mises was not awarded, with the general upshot that for the 32 years supple the equivalent of 30 years for bull's + cow respectively, i.e. for 66 years for cattle exclusive sex.

£16 Twill now proceed to show that evidence The returns that corroborates of the opinion, that all the attle who have a a prize are entered Pair chance of At is ch left derived from animals A A class asaheady shirted to Thus the bull Sir arthur Engran now flake did the same, while the Lock Leven" gained no less than fire cows gained three wished to solve way with mize, esp: a 1st frige tordid not rest satisfied with his laure there he was withing to risk fortune as with the property to appears hope of ugual or greater success (seeps 72 cases, 22 horter making a second trial in another from gain \$45 don't gain. ,27

This olean then that the best of pring winning is shong enough to make cattle accidental cases the owner of of the years old & upwards chance of winning a prize send him. kind but Total not give in go detail, and appearant in the fact that thinge cattle or the earlier ages are resent for compre what their places may have been first occasion. Therefore this we are fairly justified in looking on the as being gulstantially the and that in design, on the place few solided anomals use and protected dealing with the dean Tall ingland. + 3rd in each class have varied greath + cannot the forether all startly apportioned The object of a prize is twofold; first as a mere bait to athout

candidates, & secondly as a mark wetness their several merits. It I is from the latter point of view that I shall now regard it. conceivable that in some Exams: a candidate Shed appear year after year for many years, heing all along liable to some variation in his efficiency. after a certain term of years to be learnt by resperience, the winnings o each candidates would in value equal the supposing that the prizes were justly apportions according to their merits, or in any words to their prize-winning capacity. It without going so for we may say that the pures won equal groups of 15t 2nd & single year by to the prizes awarded to those places severally the work he equally true if we take the regulation of two, three or more years as I have done xit is very simple piece of arithmetic to ascerta whether be no the pinges fulfill the required Condition

b-work 6 49 a with when the bruzes are persportionals to the subsequent prize winning hower, the winnings of the prize calle 1223 gent degree during any specified terms of years would bear a tike proportion to the value of the original brisis, their raphores the scale of \$15 to a Mplace, the for a second and 15 for a there I be appropriate the the tobsequed womaning dwing the succe time ques 11th 2 x 3° place carble will describe hunter 15 so the seem of the sablequent winnings is to be sum of the freight son and that by modern by I we obtain It is there early the test the appropriations of any scale of fireyor. A follow the egenier calien subagued winning brown proger forth place 74215=110 34 x10 = 340 25 ×5 = 125 35×15 = 525 3/2/0 = 310 23x5 -115 14×15 = 210 P- 30 2985 = W9 neultiply a 2985 anto total of subsequent winning the requires rations are found to be 15.8, 9.6, 4.6 which agree very well with 15, 10,5. Por table 3 a sendar companion is made of various scales what have been adopted at one time in another. He all do fairly well that none so well as the 15, 10,5°.

of fact the sequence of 9 mixes allotted at the beginning a at the end & fallfil this coursemen Lib for the 2nd Clearly this cannot because it I makes the value of al 4 th or fifth place mil. It is an arithmen: pro whereas it ought, to be of a convenere. Topie, below a table the while is by far the best. 1 Table 3. make another table for the Sature is fo 12 be

(Suff C)

The significance of Period in Early life to an guarrantee;



The worth of prizes in youth a criterious of success in maturity the finding proper ar quarantess Subrement success. Callte Shrethou In instance the water of our lunge Agelow of competition examination historia bond to be contilered in the offrecisted to the canon or occurrence & sometimes of goest importance, the kind compare the prijes & which I should refer here are those aunually a worker of a compared the prijes & which I should refer here are those aunually a well of the prijes of the 4 the R. agricultural Society to Shorthorn Prives are also grace to a vast variety of other livery of Financhousers and that has a free the Cause of The land by great interest and of with the helps Keen Enulation of the best specimens gings in the opinion here's and who seen to confection who seen Chres. or competition any of their own animals with raise topics of traces a fearying of a foriges. Thus though the entires at Each thow may be few is remarked to awyels for confictitum any thow may be few in number, they are the cream of the

f.23 first the differences of returnal ment that is cornected correspond to the first second a third places in the classes about to be described and contenently the proportion between to balues of the briges assigned to the holder of theretalous is some topperage the probability I a prize winer as a calf at End succertiff comment ped age in same a fire conserved foriges in faline as it grows older had to find humber of secretion places, therefore all are the remarks of in to correlate two numerical systems: - the one referring to the prize towards early in life, the other to the same total if their tubequent frages, and to find the index of Correlation between these two.

miest Table I To show that the owners of the women of a freige are not content to show that the owners of the women of a freige are not content to test afrond the treat afrond the content to the their leaven of the tests of his gaining a seeged prize Each emphartment of the tests entrong there cely of figures the test entropy the tests of the forest tet shows the number of times in which the emphasions occurred in the first a been from of the years during which the survey when the survey when the survey when the survey to the test was allowed to compete. All the pass 33 exhibitions emphasive to their less that when the survey when the survey when the survey to the less was not fixed animals were capable to appear the true there where the sole sole to compete and hid templete most than the survey that increases the fixed the sole sole that the survey and in the fixed selection the following places the sole sole and the fixed selections of contents in the fixed select as 1-2 & the thereof achieves confections as the fixed select as 1-2 & the test of the selections of contents in the fixed select as 1-2 & the test of the selections and the fixed selections of contents in the fixed select as 1-2 & the test of the selections of the fixed selections of the fixed selections of the selections and the fixed selections of the fixed selections of the selections and the fixed selections of the selections of the selections are the selections of the selections are the selections of the selections and the selections of the selections are the selections are the selections of the selections are the

Morfining attention to the forst set, it appears that 15 orly the 33 forst place & restle in the fart place in the fart place is the fart place in the fart place in the fart place in the fart place is their countries to down so, at the best their place would be maintained and it was so in 7 orl of the 15 in the remember of it was workened. Bet in the face of their adverse link the oriners be constructed thom. We much the same with the second-place cutte, 14 were receptorted of total 4 infrared their protein, 5 maintained it, and 5 workened it with protein, 5 maintained it, and 5 workened it with a fine or otherwise are best appreciated by considering the figures in tracket, Time and situated along the diagonal from 1-1 to 4 to the statement, they are 9774143 total 23; those in the appear with head was love as the how triangle have gained, they are 1, 3, 6, 1, 3, lotal 22; those in the lower left head triangle have gained, they are 10, 4, 4, 2, 4, 3, total 27; from total deares 72.

Austra forthe special occasion who are most present the high places total in the first occasion who are most arrays the first occasion who are most arrays the first occasion who have the first the forecombination the extreme squares of the table cute to the special and the highest the forecombination of 12. In this group contains whether the q. D. 10 7, total 34, or nearly half the spoul total 172 "the other three goraps contains unfactored II, 13 and II4 cases.

Therefore the nections for leading a first on second-flace amind (whose conditions has not chetereorated) that stronges them in all the other continguacies in the insporting three in which the large contains for animal is not maintained a for few to account for the non exhibition. The maintained for few to account for the non exhibition. The other largements has been as ourse as that I the judge to I have been ordered as that I the judge to I have been as ourse as that I the judge to I have been as ourse as that I the judge to I have been as ourse as that I the judge to I have been

due is fair reason for looking an Stall be fairly topoded as represented the cream of the exister stock in regland. It is well to fault convolor the difference to be beautiful the complete of a partie of them, and one formed to indescriment removed of a footien of them, and as might be the result of theme when or other, accidental causes to such as replaced that we explains to a soften a treat could be completed in the terms of the array of the confection of the array of the confection of the array of the confection of the contains that a white balls in and definite proportion, how which so ball in the second the feel of the animal is passed, if black the in wooded out for semplifies of numbers let there are whether it would not be been then the first of every three animals (are cally in retained them the first pecand, there is well in the second them the first pecand, there is a first in wooded in retained them the first pecand, there is a first in wooded in retained them the first pecand, there is a first of the woods array will be whether array the first period with the the second that the first pecand with the the second of the woods array will be weeded array that but the first pecand array will be weeded array the first pecand the two arrays will be weeded array that the interest but the two arrays will be weeded are the first of the two arrays will be weeded are the first of the two arrays will be weeded are the first of the two arrays will be weeded are the first of the two arrays will be weeded are the first of the two arrays will be weeded are the first of the two arrays will be weeded are the first of the two arrays will be weeded are the first of the two arrays will be weeded are the first of the two arrays will be weeded are the first of the two arrays will be weeded are the first of the two arrays will be well as the first of the two arrays are the second are the first of the two arrays are the first of the two arrays are the first of the two are the first of the first of the two arrays are the fi

both be greater then in the complete series. What Interdance h. I described the Interdance h. I described the Probability Integral table, with shows what the Probability Integral table, with shows what the facts world be in any specified case of where the complete series there is no reason to suspect and serious cause of error whom to early a weeded series, but its that when I am about to describe in the same way as if it were a complete series, "remembers, in the same way as if it were a complete series," remembers, that the values we shall obtain for the relative merits of the first, second a third places are refer to this series alone, and are not by generally appricabilities.

Places won by Shorthorn Caltle of Class A (age) 3 years and apward) on succession triels.



Place of	Place	on the	Subses	west trial
first trial				forwith
first	9	8	1	3
Second	10	(2)	6	1
third	4	4	4	3
fourth	2	4	3	3.

To Purter. The figure, surrounded & a blue corde are to be in heavy type

Example - the succession places won by the in the gens'69,70,71, ball Edgar & being 2, 2, 1, are entered to in the gens'69,70,71, as 2-2; 2-1.

The dark diagonal figures show & where the animal held the same place our the two trials.

Therefores the apper right head to take the number of cores in which the lost in the apper right head to take the number of cores in which there in the apper right head to take the those in which there is the lower left hand triangle the which is gained from the triangle the property of the same of those in which is gained from the same sit of the same of t

Holders	90	un su	bequent	thy		
of	first	second places	Third places	fourth places		
first places in A.s	6	4	1	1		
B	18	7	7	3	extel walni	
c	26	8	9	7	- At 1,213	1045
1.27 x D	24	15	8	7	Mojor feate and	Light I
Totals	74	34	25	17	150 1575	10
second places in A33	4	5	4	2		
B	7	10	8	8		
c	16	11	6	,		
1.27 x D	8	5	5	9		
Totals	35	31	23	20	109 950	6
third places in Asig	4	2	3	1		
B	2	4	3	2		
C	3	10	4	3		
1.27 X_D	5"	1	4	1		
Totals	14	17	16	7	54 460	5
fourth places in A 3rd	2	3.	4	2		
B	0	1	3	2		
C	7	3	5	6		
1.27 X.D	13	4	4	5		
Tetals	12	11	16	15	54 370	3/4

Comparative merits of various scales of prizes

	to first	to second	to third place	to fourth	Total
1. Scale of prizes, in L. Ratio of subsequent winning	15.0	10.0	5.0		30
2. Scale of frizes, in £. Ratio of subsequent winnings	20.0	10.9	5.0	-	35°
3. Scale of prizes, in 2. Ratio of subsequent winnings	25.0 24.1	15.0	5.0 6.7	-	45
4. Scale of prizes, in 2. Ratio of subsequent winnings	20.0	15.0	7.0	5.0	50
5. Scale of prizes, in X. Ratio of subsequent winnings	30.0	20.0	15.0	10.0	75

	Value	of	frecast	for	the	subsequent	years.	
П							TOTAL METERS	ĺ

Places	Subse	quent	pla	ices	Jota X15	L winn	ings on	the	birded by 105 for
		1st	2 nd	32d	Ist	2 nd	3rd	Total	by 195 for average per head
in D	in C						1 . 0	*[£546]	The same of the sa
	in B	30	16					\$ 655	
in B	in A 3rd	15	14	13	¥225	\$ 140	₹65	£430	2 2.21
in A3rd	in A 4.t.	14	11	7	£210	£ 110	2 35	£355	1 1.82
* The aci	tral total	l is à	430;	this	is mu	liph	ied b	4 1.27	mean 2,54

Value of original prizes won by 780 callte (65 in each of the disser and 3 places) compared with their subsequent winnings.

Winners in A 3rd y: , B , C , and D balue of prizes		equently for al places	Total Subsequent Lounnings
260 x 15 = 3900		×10 25×5	1575
×10 = 2600	35 × 15 31 ,	10 23 15	950
× 5 = 1300	14 × 15 17 5	(10 16 x5	460
7800			2985

The subsequent winnings, as above, = 0.383, or a little more than 1/3 of the original prizes.

Holders of: 1st, 2nd 3nd places in	Subsi	in place	ty of	Total winnings on the scale of \$15, 10,5
A, 3rd year			8	₹ 360
B	27	21	18	705
CD	45	29	19	1060

B's winnings exceed those of A 3 year by 345
C's "B's by 355
D'sought to exceed those of C by about 350
that is they ought to be \$1410 but they are
only \$860, or 0.6 of what might have been expected."

Contents 3 sem 64 the the cont SBalle B + A3 & A4h worked at is Coly 13 ork 3 Cowy dollo (Bulls C & B, A3 - A4h Cows ditto, continued in 6 SCOWS C 5 , A3, A4, & B. Bullicelver & E A31 A4, Bas C 789 Nº of Entries in the original lath, average 65 of each Summary of dowbrequent place of the 12 3-4 pla 11 Summary of winnings in \$15, 10, 5 teals (Test of \$25 10 5 20 10 5 18, 12, 8, 5,93 14 Single triels D-C; C-13 15 B-A3; A3-A4 16 Summary of 15 - 16

(Copiel by A Frank Bulley)

1 340	Bulls year 4	uear	3 de Cou	5 Wayear
p	lace pla	ace	place	place
1,	4	3	, 1	1.
1		2	13	2
1			14	2 3
12		1	1	1
1			,1	2
	1	2	, 3	1
	1	2	, 2	2
1			14	1
T		-	. 3	1
			, 2	4
1			14	7
		1	, 3	3
		4	, 2	2
		Terror III	1	7
		4		3
			- 3	4
				2
		2	14	3
			v 2	2
1			13	1
v		3	11	1
V		3	12	2
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			04	4

GALTON PAPERS

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	ъ.			

В	Subsa places		
place	5.dyear place	4 thyea	
11	1		
13	4	-	
1	2	2	
, 2	1	-	
,2	3	-	
11	3	1	
,/	1	2	
12	3	2 / 2 -	
12	2	_	
14	3		
12	2		
11	2	1	
12	3	- 3 - - -	
,1	1		
12	3		
12	4		
, 1	2		
14	4		
		1.	
11	2	4	
11	1	-	
12	2	-	
12	3	-	
11.	3	-	
12		2	
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1/2	1	-	
12	4	-	
12		-	
13	4	2	
12	1	-	
13	1 4 1 2	-	
14	4	-	
11	i	-	
12	12	-	

COLLEGE CON PAPERS ON COLOR ON

	-	
	COLLE	
1	Corre	03
12		86
140		
100	TO	M (
(00)	GALTO PAPER	
123	Olive	
550	MADER	8
143	PAPEN	-
100		
10		- 33
1.4	'a	- 40
	11	1
- 100		1
	-	

B	Subsq:	places
place	3 · year	4 tyear
,3	3	
14	3	
4	2	
11	3	
,3	2	
11	1	
12	2	2
2	4	1
,,	3	1
12	4	
11	3	1,
1	1	4
14	3	
, 2	3.	L
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	1
15	160
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	-

C	Subs in	A 4th year	t place in B
11	1		1
-4		-	2
1		_	4
12	2	2	1
,3			1
4		_	3
2	3	1	1
1		2	1
	1		2
. 3	4	2 -	
12	4		1
1.		F	
v4	2	T	17
11	3		17
12	-		4411
12	-	-	1
14	-	4	-
11	2	4	1
13	3	3	2
1	3	3	2 3
13	- 2	-,	3
12	2		-
13	-	4	2
11	2	-	1
14	4	-	4
1	2	4	1
12		-	2
11	1	_	1
,3	2	_	2
14	2 4 2 - 1 2 -	-	1
. 3			3
14	3 2 /		4/2/2/32-/3//32/
. ,	2	3	
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1422334			1
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. 3			3
3	2 -/		2
1. 4			1

COLLEGE CON PAPERS ON PAPE

C		core p	laces
place	3 year		
11	3		3
,2			1
, 3		-	2
,3			2
11		- 3	3
,2		3	
13			1
14	1		
13		T.	4
11	7		7
, 2	1 - 4		3
	1		
11			1
11	-		
11	-	-	1
12			2
14	4		-
11,	3	-	14
1,	3	1	3
14	-	-	
11	-	-	2
13	2	-	-
11	-	4	2
,3	-	-	4
12	-	-	1
11	-	-	1
11	-	1	1
12	-	-	3
12	2	-	2
11	-	-	4
14	1	1.	1
12	2	3	1

C	Sabse	quent	places
place	in 3th year		
11		_	1
,2	1	_	_
12	-	_	3
11	1	-	1
14	4	_	2
12	_	_	1
,2	1	1	. 2
14	_	_	1
12	1	_	1
11	-	-	3
14	-	-	3
73	-	_	2
11	-	_	1
,3	3	_	_
12		-	2

GALTON TO GALLAND TO G

D	A car 4th year	\mathcal{B}	C
place 5 y	car 4" yea	•	
1 -		-	1
2 -		4	-
12 -	-		,
3 -		3	1
4 -	-	2	3
	4 -	-	2
1/ 2	, ,	7	1
4 .			4
11	-	1	4
2 -	- -	-	1
3		3	3
14 -	_	_	1
,2 -	- -	-	1
14 -	-	-	4
-1 -	-	/	-

GALTON CON PAPERS CO

D Hace	Subse A 3 de	quent 4tycar	place B	s in
2/1/23/3/2/124/24/24/13/			24-14224-12-2-	4433211-2311321342-1231

D	Subset 1.	4 year	t pla	ces in	
				,	
12			-		
1/	-	-	3	2	
11	-		-	2	
12	-	-	-	4 3	
13	-	-	-	3	
V 2	4.	-	2	4	
12	~	-	-	1	
11	-	-	2	2	
11	-	-	-	3	
14	-	-	-	4,	
V4	-	-	-		
11	-	-	-	3	
4/	-	-	3	4	
V2	-	-	4	1	
V3	-	-	-	1	
J3	-	-	-	2	
11	-	_	2	2	
12	_	-	-	3	
V3	-	-	-	234	
	1				

*	No	8htries	m the on	unal Tabl		t.77 (10
Bulls That	1869-75	A B 28 28	c D 28 25	Total .		The state of
all four places	876-82		28 27	111		
,	883 _ 88	22 21	24 24	21		
	889 - 94		24 (my +39)	76		
	901	4 4	4 -	72		
Cows. Tout i		28 27	28 23	106		
all four places !			28 27	111		
	883 _ 88	45.0	24 24 22	93		
	295 - 00	24 23	24 24	95		
- /	901	3 3	4 4	14		
Bulls + Gws. Att	four places.	260256	264204	984	12 33 sears	
Jos mean Nos		148 96	6			
	mean .	25417 26				
Dregimes rais that is being the slight dif	ing in rati	of 260 h			The cree i	then Die Carrell
disregarded consist of	t, 9 all	may be	considered	7 to		
Nº / Ce	ses of fo	4 places in rat places in all llass	WA = 5	60 = 64		Terry St.
					NERS/V	GALTON S PAPERS

A.12

Summary of subsequent places

Durk

(From apy-book 3. h1234)

Total	Holden	1 gàs	in sub	sequen	thy
places	of	first	second places	Third places	fourth places
65	first places in A		4	' 1	1
65	3	18	7	7	3
65	C	26	78	798	7
65	1.27 × D	24	15'		14
260	Totals	74	34	25	17
65	second places in A3		5	4	2
65	В	7,	10	8	8
65	·	16	11 53	5	/
260	1.27 X D Totals	35"	31,	23	20
65			2	3	1
650	Third places in A	4 2	4	3	2
650	T C	3	70	100000000000000000000000000000000000000	
65	1.27 X D	5	1	4	3
260	Totals	14	17	16	7
65	fourth places in As	2	3	4.	2
65	1 B	0	1	3	2
65	C	7	3	5	6
65	1.27 × D	3	4	4	
260	Totals	12	11	16	15

me

GALTON TO PAPERS NO.

*	From	Juga 71	1 winne	nis in it & the most a	15,10,5 hribrate	pruze, F.13 12
Wouner .	of win Sel Free fu	negrently in him secret fl	all 4 trial, an there pla	20mming	stiblecher # 340	the mit \$15,10,5000 15-25-
Second place	31	31	23.	535	310	115 950
Thord place	14	17	16	210	170 18/281)	2935
2935 :	30 ;; /3 2025 ×	1525 =	1 21.0	2 × 1525	= 15.5	Should be
		7		7930	97	10.0
				* 460	= 4.7	30.0
			, 15,	5 Total i	45	
	E	#	4 1	Total E		
Front place	1850	510	' en 10			
(ma)		PERM		2485		GALTON TO PAPERS OF
Seam) there	775	465	115	2485 1755 685 4925		GALTON LOND PAPERS ON
therd 4925	775	465° 255° a; 2	115	1755 685 4925		GALTON LOW PAPERS ON SA - La
therd 4925	350	465° 255° a; 2	115	1755 685 4925 $a = 24$ $= 17$	85 2 = 85 =	22.7 25- 16.6 15-

*	Cong	unera	7	Carles .	1 hrs				(13	
Bustol	21		10	-	This	is woon	9	7		
1570	frit 1	decal	15.21	fails.	Satron	e l'even	enci en s	unled	T-842	
	place.	Jula	place	phus	£ 30	1 25	£ 25-	1 1/202	80	
Fred places	74	34	25	17	2220	850	625	340	4035	
Secon flow	35	31	23	20	1050	775	575	400	2800	
Thirs flows	14	7	16	7	420	425	400	140	1385	
Fourthfloor	12	11	16	15	1360	275	400	300	1335	
0		A	. 0.	/	2 - 1	80,0	00 1	× 8.38.a	9555	
æ : a		4222	100		,C = 0	1× 955	in companie	and and		
	a	= 14				.8	30		GOLLED	
		. 2				.6			GALTON CO PAPERS OF	
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Nollenskar					80	.0	800	1		
Noungkar 1888	a	ato	ne		80 Subrey	.0	800	€ TOCA 35		
	a	ato	ne		Subrey 20	nest wi	800 nmys ;	€ Total 35		
	a	ato	ne		80 Subrey 20	10 10 340	800 nming 3	1945		
	a	ato	ne		80 Subrey 20	10 10 340	800 nming 3	€ Total 35		
	a	ato	ne		80 Subrey 20	10 10 340	800 nming 3	1945		
1888	bel b	ato	ne out		80 Subrey 20	10 10 340	800 nming 3	1945 1125 530		
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1888 2:2::	± 35:	3600	ne out		80 Subrey 20 1480 700 280	340 310 170	125 125 115 80	1945 1945 1125 530 3600	as compress	al
1888	± 35:	3600	ne out		80 Subrey 20 1480 700 280	340 310 170	125 125 115 80	1945 1945 1125 530 3600	as compress	al
1888 2:2::	± 35:	3600	ne out		80 Subrey 20 1480 700 280	340 310 170	125 125 115 80	1945 1945 1125 530 3600 = 18.9 10.9 5.9	as compressor	al.
1888 2:2:	± 35:	3600	ne out		80 Subrey 20 1480 700 280	340 310 170	125 125 115 80	1945 1945 1125 530 3600 = 18.9 10.9 5.9	as compress	al

1	from p	11				£ 1	5 (14
r	1 First pla	e Sees 1	Keiris	franth	1		
First place		34	25	17			
Second	35	31	23	20			
third		17	16	7			
0	12	11	16	15			
2						-	
							of its preday
£18,	\$12,	£ 8	£5.3	3 Total	₹ 43.33		er compared
	#	1	4	+	1 to Tolat	×.963	60
First place	±12 , -×1₽ ± 1	408	200	90	2030	19,54.	
Secon)	630		18.4		1293	12.42	/2
Wered	252	204	128	37	621	5.98	8
fourth	216	132	128	80	556	2:35-1	5-
					4500		7
a:	t :: 45	100 : 4	3.33				
n = 43	3330 ×	100000	= 1000	963×a			
						1,4	LLEGE
						S GAL	TON S

(tray 19, 11, 6, 5)

BALTON CONTERES OF THE PROPERTY OF THE PROPERT

	Suis	le	Trif	4				01	6 (15
Bul	4	Con	ws	Ball	5	Cor	us	1		
Place	Shown	Pla	ce s subsequi		Dubery In	K	Subseq			
2	ć	2	subseq:il	C	B	C	MB			
,1	1	,2	4	VI	1	1	3			
12			4	14		12	1			
	1		3	11		3	2			
14	3	11	3	12	1	13				
-2			2			11				
		Production of the last of the	1		3		1			
1		-1		- 2			4			
+	4		2	11	1	1	1			
V1			3		2	- 2	3			
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, 3	3		1	14	1	1	2			
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12	1		1		1	11	1.			
14	4	2	3	71	1	14	3			
	T	14	4	13	2	1				
		12	2		2	11	2			
		-1	1	,3	3	.3	4			
		1	2	13	2	12	1			
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		1	1	VI	1	1	1	1/3	40	400
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		14	4	72	1	1-2	1			
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		100	4		1	12	2			
		-					M			

Con	vs	Bu	lls	Bul	ls	low	s	
B	A 3rd	B	A 3ºd	A 32	A 4/2	Asid	A 4/4	
B344131221142211231222321213	4	B1312211224212142141122211132412	A1421331323223134242123141241412	A342223114213221142142342	A 3 2 2 1 1 2 2 3 1 3 3 1 4 4 1 4 3 2 3 3 3 2 1	ASI 3 4 1 1 2 4 3 3 4 1 2 1 2 3 4 2 3 1 2 1 4 3 4	A 1 2 3 1 2 2 1 1 4 1 1 2 1 3 4 2 3 2 1 2 1 4	

GOLLEGE GALTON LONG GALTON LON

A GOLLEGE DAPERS OF THE PAPERS OF THE PAPERS

	Bulls						Bu	lls				
in D Su	bregação	tin	C		in B	Su	bseq	wer	ti	m	A	3 4
211	12	1 3	1	4		1						
1 3						in (
2 - :	. 1				2	***	3	4	****	4		1
3		. 1			3						.,	2
4		. 2	+1	2	4					2		2
4	6005				3 4		60	ws				
1 = 5	5	- 4		2	1		4.	1		4		
2												
3 2					3		0.00					
					4			1.		2		
Total 20	10	13	1	0	Total	15		15	1	7	1	"
	Bulls				# Total		Bo	11/2	-			
mc sub					In As	Sul	5000	uni	Th	~ 1	A	4 %
11						1		2	3	3		4
11 ::: 1	3. 1		.,	2								
2 :	6. 1	19.18				***						
3 -					3		/		4.	2		
4 1	1 2	2		2	4	12	1.	1	244	3		1
					13 8 2	· Line	Co	ws				
1: 200) 2	* 3		2	1	-	6.	1				
2	5 6	3		0	2			3		2		
3 .			1				7		1			
3 .				0	4	1.	2	2		1	-	1
3 14 2 Total 34	. 1	2		8	Total	16						

		156	2 1	3 rd	£ 15	£10 dd	£ 5 3250	aleal	- 180 for Average per he
in D	in C	19	9	11	285	90	2 550	[346]	3.03
n C	in B	30	16	9	450	160	45	655	3.64
in B.	mAs.	15	14	13	225	140	65	430	2.30
h Asid	m.A.45	14	11	7	210	110	35	355	11.97
K The act	nal tot	al is	430,	this .	100	- mu	ltphèc	L by	mean 2.7 6

frast second a third places	Subseq	second film	there	the so s quil	Total
in A 3° gen	14			210+110+40	= 360
B	127	21	18		
C	45	29	19	Y	1
76	37	21	19	555 + 210+ 95	

if winning of C = n times those of B, n = 1060 = 1.5 then then of D onell t = n2 those of B on 2.25 x 705 = 1586 (1.84 00) bel it is as 860 or thethe more than I was 15 x 360 = 540 bu A 3 4 exception longering el - be as much longer than those of C diff = 355 as those of C are larger than those of B 1060+255 " 1415 When it is not 360 a & 6 lemen little serve than /2 1115:860 =1:2 Bi winnings of coad there of A32 to 345 355 18 ought 6 exces ... C & 350 or be 1410 bothy are 860 = 0.6 of what who expects Verefor a D quarranter in hard half as sood at the C of an Allution but it is good for one gan sec [7].

OOLLEGE GALTON LONDON PAPERS NO.

	Charm	A	The same of	louis .	14.01			712
Bulls		Cow	3	h-yan	Cows			
13 gar	4 year			In 4t pay	Lifla			
place	place	place	Julice	5-	5			
14	(3)-	1	1	5	15			
,2	. 2	.3	2	-	15			
12	2	.4	(3)	5	10			
,2	1	11	1	10	10			
,3	1.	,1	. 2		-			
1.1	2	13	1	25	55		COLLEG	
1	2	,2	2		25	1	BALTON	\
-4	(3)	.4	0		80	ER	PAPERS -	
1,2	1	1,3	1			1	PAPERS 25 14 3 6 0	
1.1	3	12	4					
13	3	.4	()					
12	1	,3	3					
12	4	,2	2					
11	4	1	1					
	1	,2	3	ave	rage win	Inen !	ter hend	Elt & sar
14	(4)	1,3	4	by	ther 1 2 2	3 Mino	amend the	
2	3	,4	3	3/2	year in o	Mars A	7	
21:	2	,2	3	32				
1.4	34	13	2	There!	*			
1/2	3	-1	,	,	135/66	- 2	65	
1,3	3	12	9		100/00			
14	(2).	. 11	1		120/11	- 1	07	
	(5)		6		130/66	- '	.9/	
/2		14	2	2	2-1/2	,	L-1	
		13	Car	3	93/03	= /	, 2/	
		14	4	9.	2/. 1		00	
		25		In genral	360/195	= /	.03	
23		1,0						
040	4th year	1		3rd year N	0. 1 12	11.10	d Hai	Junear
and the same of				32 4500 X	off lear	us v	acres of bridge	213/10/2 000
	lace 11			Mace 1	-17 prages		1	Total & TECH
The second second second	TI TIT IN		14	1, 1	1	1 1	E	135 66
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3	abseguent	winnin	90 0 1	12 23	prize o	rettle	1 12 A Calvy Bad
Page	Project 15 105		of the !	274	3 1/4	4 th fram	the small williams
4.	A Jun & Alle		135	130	95	80	
3	BuAS vick4"	650	345	235	70	25	
6	C AS A4xB	1060	5-15	380	165	140	
7.	D WAS, AL, BA	196	435	135	95	75	GALTON E
Milue	Total	2735	1430	9.7	425	3 2 0	GALTON FOR PAPERS
273	5- : 30 : a	1 12	122	30 2737 a		110	
	b firm stone.	665	435	135	95	75	
1 260	0:206	[837]	[548]	[70]	[19]	94	
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o selt un 1,2,3 Shirlane U	$t \rightarrow 6/2$	345	1		0/35	[837]	2
N-Pemb	litions						

Subsequent winnings per head of Jungo cettle 1st 2" a 3 d is Attain your, B, C and Buspechail

The winnings under Each Category and divided by the number of places in that category. The present on the \$15, 10, 5 crale

Subtequent wern mange of funge callle of classes	16	Pl	200	22	CL	ass 3		41/2	Total
A of their year, i Auf formalt sea	135	2.05	130	1.97	95	1.57	200	1.21	360 1.85
B, ain A A third & front year							1		650 3.42
C, 44 13, and A of 3 1 4 plan									1060 5.61
D, in C, and 13, and A of 3" = 4" jenes	435	6.60	435	2.10	95	1.44	75	1.39	665 3.39
Total	100	5.50	255	3.48	255	.1.67	25	1,28	27.35 355

The above wently to one decimal place

Subst	seent winnings of	Places	in their se	veral C	lasses	General
Prize (able of classes as below	14	2"	3+0	4 1	per hand
A 437	sear in A of 4th year	2.1	2.0	1.5	1,2	1.9
B	vi. A of 32 of tears	5.3	3.6	1.2	0.4	3.4
C	m Bana A of 32 4th sean	8.2	6.3	2.5	3.3	5.6
D	ni C, and oi B and oi A of 3th 4 years	6.6	2.1	1.4	1.4	3.4
Their govern	General accrages por her les it, relation winnings 11 2 is playe caret	5.5	3.5	1.7	1.3	3.6
5.5 3.5 7.7	> x 5 by 2.81	15.4	9.8	4.8	3.7	
1.98 in	ch equipment of \$5 m 12 15, 10, 5 each	(he hill	1 0/4 6	ort)	3.7	

Number of Cattle to whose names no asterisk * is attached 1869-1901

76 ge.		Bul	Us	
Page	A	B	c	D
1	10	13	14	19
2	8	13	13	24
2 3	7	10	14	170
4	7,1	17	16	3
5	11	15	21	-
6	2	4	4	-
Total	49	72	82	63

		low;	5	
Page	A	B	C	D
i	13	13	16	18
2	8	14	//	16
3	6	13	//	17
4	4	9	8	12
50	50	10	11	16
6	1	3	4	4
Total	37	62	61	83

Shows that tables are not complete.

[86]

[80]

134

Bulls + wars. 509.

143

143

Fig. 6

uners for pances

Bullstanda Contro

1	A	1B	æ	10
-	86	134	143	[163]

Dreivied to family

Totalets 526

The series extends from 1868 6 1901 inclution = 34 gens .
Throughout there are 3 classes of balls of cour severally that may be described as mature, adult, and groung animals

and prize of successively decreased value, such as £15, £10, £5 are quois for the first seemed a third animal is Each class.

There is absolute homogeneous series may be obtained by a small sacrifice of material

The limits fage by which the several classes are defined is not idealised; at the beganning they referred 6 the age of the animal subsequently to the year of birth, bearing in mein) their ambiguity the classes refer - A to animals of 3 years old and more 13 tover 2 vanter 3 , Ct over 1 and ander 2; D, coloes, t water 1 year. There was a little overlap in the year 1882 when the change occurred so that some animals were able to Compete in the same class both for 1881 × 1882. I have ignored these overless. again an where limit of class A (mature animals) has been latterly laid down, but not throughout in the same way, It has however always included the 3 the 4 year, so in the series I shall use there will be the limit. The material kere nounced served

usefully in another way. There is the statistical results from the statistical results from the statistical results of the statistical for worked out separated for Bulls of Cows but the results were substantially it same to I give them in combination.

