

Returns on Visualising Questions from Schools and Colleges

Publication/Creation

1880

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f. 1

Charterhouse) Visualising



F. Galton Esq.
42 Rutland Gate
London W.

Charterhouse
Extracted for vision
not for sound.

f.2

K

For Nos. 16. 21. 22

See Nos. - 36. 39. 37 of the lot
I sent before

W.H.P.

I have transferred
these to K

f.3r

Charter house

The number diagrams
are traced on a separate paper) can be seen
which is pasted

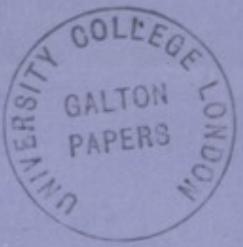
6.	SCOTLAND, W. (and I. of Man.)	y winds, fresh or moderate ; fair on the whole.
7.	ENGLAND, N.W. (and N. Wales.)	South-westerly and Westerly winds, moderate & fresh ; cloudy.
8.	ENGLAND, S.W. (and S. Wales.)	Southerly and South-westerly breezes, light and moderate ; fair.
9.	IRELAND, N.	Same as No. 7.
10.	Do. S.	South-westerly breezes, light and moderate ; cloudy, but fair.
GENERAL		Thunder-storms may occur in the South to-night.



CSV

1 (4)

1. Yes
2. All the objects are clearly defined, but some more so than others.
3. Decidedly so.
4. Within the head. I cannot project an image on a piece of paper
5. Has never mistaken a verbal image for reality
6. Diagrams, dates etc in my mind go back in a straight line
7. Can mentally recall music



With considerable ease, and
also magnify it.

~~R. H. D.~~,



~~W. D.~~

2

F.5

1. The image is very clear. Quite as bright compared with actual scene.
2. Every thing is equally well defined.
3. The colours are quite distinct & natural.
5. Just above the eyes. Yes.
9. The vivid mental scene passes away sooner. I have often mistaken a mental image for reality.
10. Numerals are only associated with the form in which they are printed.
13. I have a special aptitude for mentally recalling music & for imagining it, especially when suffering from head-ache -

~~flat~~ 1

3

f.6

- (1) The image is fairly clear, but not so distinct as the actual scene
- (2) I cannot see all the objects distinctly at the same time; the chief features, such as the walls of the room, the table &c are always distinct, but I need to concentrate my attention particularly on a person's features or any small object on the table in order to see them distinctly; + I cannot see the features of two people distinctly at the same time.
- (3) The colours are quite distinct + natural
- (5) Mental images appear to be situated at a distance corresponding to reality.
I cannot project an image on paper.
- (9) No difference. I have never mistaken a mental image for a reality.

- 67
- (9) I ~~always~~ ^{now} see in my mind the figures of a date or numeral of which I am thinking; but numbers are not associated with any diagram.
- (13) I can mentally recall any scene which I have ~~had~~ heard.





f.8

4

~~C. Sartorius.~~

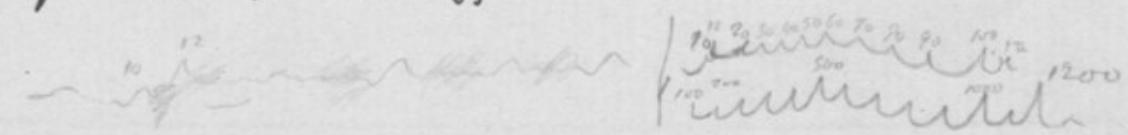
1. The images as they pass before my eye in detail are fairly clear & its brightness is to some extent comparable to that of the actual scene.
2. The objects are not well defined at the same time but I can only picture each object in turn, not as a whole, so that I lose the effect of the whole scene.
3. In fixing my attention on the colour of the china toast &c I see their distinctive colour but lose all idea of their shape which gets uncertain & wavering which was clear before when I was not confining my attention to colour; & I cannot picture the colour of the pewter mustard pot & of the mustard itself at the same time.

5. The images appear just in front of my eyes. — No.
6. The mental picture is uncertain & I can see only a little of the scene at the same time. Some colours & white more than any of them, are more distinct than others. For instance I imagine two ladies as they were when last I saw them together the one in a cream coloured dress trimmed with red is very clear to my vision but the other which was of some dark colour (gray) is perfectly indistinct & I cannot picture it except as a dark undefined mass. — Only once or twice when awake but when dreaming my mental vision is very keen & exact.
7. Figures appear as written arabic figures.
13. I cannot recall music nor when hearing it can I imagine it in writing



5

f. 10
~~710~~

1. The image is dim
 2. The place of sharpest definition is contracted
 3. When imagined separately yes, but when whole table is taken no.
 4. Within 2 ft ball. I can generally project images of objects in microscope or paper placed by side of it but cannot draw really.
 5. Not alike. No.
 6. Name Persons ages or scores at cricket or numbers of hours etc, but not figures in Mathematics) are associated as spaces on foll diagram which appears to go from hair to vacancy being greyish tone & without colour shading represents sense of greater darkness
- 
- Dates etc are connected with place of & in book where seen.
- 13 * No, never for music

Not present at lecture

f. 11

7-4-1911

6

1. The image is dim
2. The place of sharpest definition is contracted
3. When imagined separably yes, but ~~as~~ when whole table is taken together no.
4. In vacancy. Can't draw-
5. Not when wide awake.
6. Numerals are connected with their actual forms as written dates, with particular places or spots in a book from which they were learnt. Eg dates of English history with part in Little Arthur's history.
7. Yes.



6.12

No note as to
what therefore to

Yule

1. The image is clear, but not so clear as the image which rises on thinking of some scene more remote in time. The brightness and light is ~~so~~ more intense than that of the actual scene. The partial indistinctness seems to arise from dazzling light, but the image of a more remote scene is ⁱⁿ a due subdued light like late evening, but more distinct than that of a recent scene.
2. In the particular instance referred to (breakfast table) the place of sharpest definition is more constricted than ⁱⁿ the real scene, especially when I imagine myself seated at the table, — which I do not without effort. In thinking however of a place, such as a street or a room, or of a landscape, this is not in any way the case, — all objects are pretty well defined which could be seen at once in the real scene, including



f. 13v

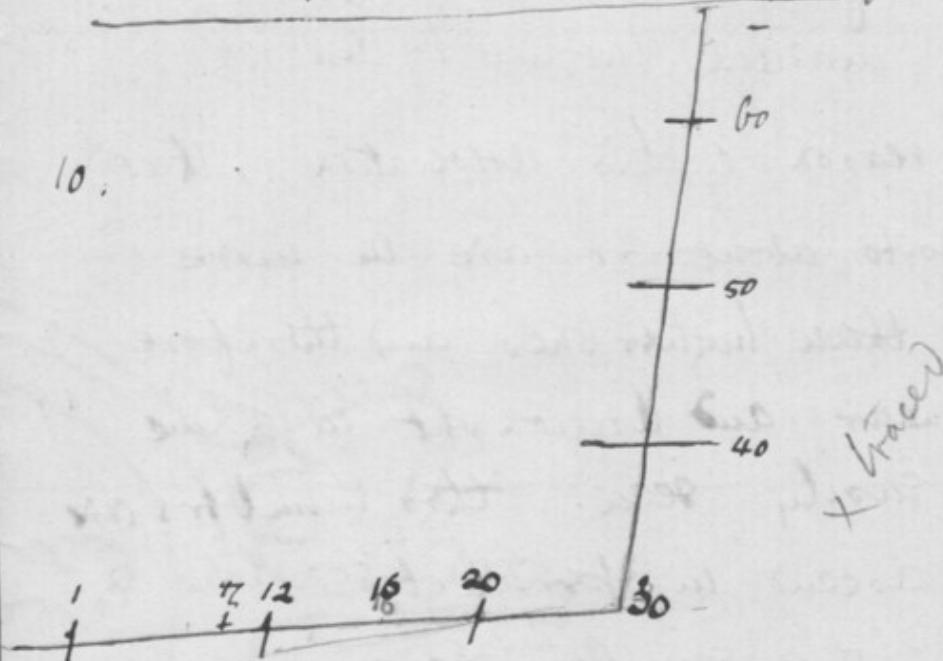
those which I do not consciously remember to have been there.

3. The colours of objects on breakfast table are natural and distinct except for the strong white light which seems to be shining in the picture.
5. Mental images appear to be at a distance corresponding to reality; in some cases entirely so, when I myself appear to be walking about etc in the place. In others they appear at one side ^{or, slightly} and below me, and I see my own figure in it sometimes as a third person, if I think of myself as present at all. The latter, I think, happens when I am thinking of actual past occurrences in the scene.
I cannot project an image on paper.

q. I cannot define the difference between a
mental picture, however vivid, and an actual
scene, but I have ^{mistakenly} never one for the other.

f. 14r

10.



Numbers up to thirty I think of as lying in a row in front of me in a slightly ascending line. There are marked divisions at 1, 12, 20, 30. 16 seems to be the point exactly opposite $\frac{1}{2}$. $\frac{1}{3}$, $\frac{1}{4}$ appear to lie behind 1. After 30 the figures ascend almost directly upwards, the tens being marked. The distance between these do not get regularly smaller as they ascend.

that between 50 and 60 is longer than ^{some} others,
and that between 90 and 100 is very short.
The multiples of 12 and some other particular
numbers are marked but not by divisions.

I suppose the reason of this association, is that
numbers up to about 30 are in more
common use than higher ones, and therefore
seem to lie near and draw out in a line
so as to be easily seen. Other numbers are
distant and ascend in perspective, like a
long street, for a similar reason.

The details I cannot account for.

~~The numbers~~ The numerals have always in my
~~the~~ mind had particular genders.

1, 3, 4, 5, 7, 9, are masculine, while 2, 6, 8 are
feminine. Each of these numbers has also
a particular individual character.

Numbers with two digits also vary. Up to 40
they take the gender and character of the last



7.

f.15

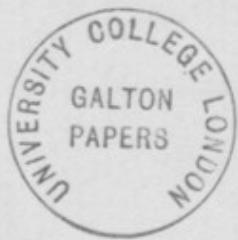
digit, but afterwards that of the first; if I am accustomed to think of them as multiples of some no number, they take the character of that number; 27 is like 9 and 35 like

7.

Most of these associations disappear when I am actually doing arithmetic.

13.

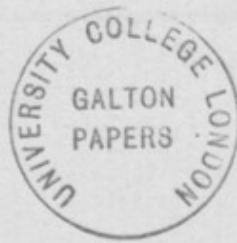
Yes.



8

1. Fairly clear but a shade less bright than the real scene.
2. Various parts become clearer than the rest when the attention is drawn to them.
3. Quite.
5. Exactly where they would be in reality.
I can.
9. No considerable difference. I have never mistaken a mental image for a reality, as far as I can remember.
10. No.
13. Yes.

J. C. R. D. [Redacted]



Chadshoring.

f.17

I. Fairly clear, though ^{its brightness is} not quite comparable to that of the actual scene.

II. The objects are not all defined at the same time, but attention has to be fixed on any particular thing to see it quite clearly.

III. Yes.

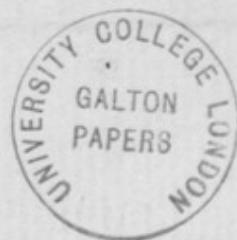
IV. At a distance corresponding to reality. Yes

V. There is a sort of gloss thrown over the mental picture, the various objects not being so sharply defined as in reality. No.

VI. I have no mental imagery of shape, position &c of numerals; but 6 has always seemed mild & good natured, 7 cross & hot irritable, partly, as far as I can make out, owing to their shape (The notes in music used all to have characters, owing, I suppose, to their sound.)

VII. Yes.

~~H. J. Dally.~~



A

f.18

For to see No. 10 in
the lot I sent before.

I have put this N°10 in
the A. set

" ~~Memory~~

1. The mental picture is dim & by no means comparable with the reality.
2. The objects, say on half the table but not all of it, are very fairly defined No.
3. The colours of the objects mentally seen are always distinct & natural.
4. The mental vision seems to me to be at a distance corresponding to reality. No.
5. The difference seems to me to be the fact that the objects appear smaller. No, never.
6. Only when I hear a date mentioned I always seem to see the figures of it printed about this size 1 2 0 4 4 c. The only explanation of it I can give is that it was probably the size of the figures I first learnt dates or numerals from.
7. I can recall music once heard merely without hearing, but cannot imagine a tune.

12

f.20

~~falling~~

- 1 Dim; but clear in ~~any~~ any one spot if I as it were concentrate my gaze on that spot
 2. The place of sharpest definition is more contracted than in real scene
 3. The colours are quite natural if I think out them, but unless I concentrate my thought nothing particularly strikes me
 - 5 Mental images are in the front middle of the forehead just inside the head
 6. The difference is that I can only see part of a mental picture at once.
I have never mistaken the two.
- ~~I only remember~~ think
19. Only when I think of a number I appear to see it in white on a black ground as 1880 only it is white on black. The figures 1 & 8 are always associated together because I suppose I have always lived in ^{the year} 1800 and something
 13. None whatever

H.B. 13

1. The image is perfectly clear, and seems just as I saw it.
2. all the objects are pretty well defined at the same time, but I remember what is in front of me the best.
3. The ~~greatest~~ colours of the different things are perfectly distinct and clear.
4. I generally see objects ~~objects~~ at a distance of reality, but sometimes they seem to be fixed in my eye at no particular distance - I could easily write an image of what I have seen, as a landscape etc if I could draw - I could tell the distance of one thing from another, the lights and darks, etc.
5. I perceive very little difference - I have never mistaken a mental image for reality.
6. Yes they are certainly - for instance, if when I learn anything by heart, I have the page written in my mind and could tell which line in the page it was that I was saying

and which word in the line. I cannot account for this.

3. Yes I certainly have, and quite easily think a part which would make harmony if anyone else were humminig a tune -

Whenever I try to remember any scene or calling to mind anything I always look up.

W.W. Strike.

1. The image is fairly clear, & is quite as clear as that of the actual object.
2. The objects nearest to me, especially any on which I may have bestowed any especial attention, are more distinct than those more remote.
3. All colours are quite distinct & natural
4. The images appear to be situated outside my head, & a good way off, so that I see the different things appearing a good deal smaller than they really are

9 (1)

- (2.) I have never, as far as I know, mistaken a mental image for a reality
10. Not invariably, but generally: for instance in thinking of, or being asked to name, the date of 'The Battle of the Spurs,' I see a vision of the battle in my mind's eye. I cannot account for it in any way, except that, perhaps, I remembered this particular date, by the event from

so which the battle is named.

13. I can recall, but not imagine, any time.

2. ~~of vision~~:

- No. 1. The image is fairly clear. It is not comparable to the actual scene.
- No. 2. The objects are all clearly defined at the same time.
- No. 3. The colours are all the same colour as reality. ~~an instinct to run a little~~
- No. 4. Mental images appear at the real distances of the object I have seen & am picturing in my mind, is a subject that I was deeply interested in, when I saw it, I could copy as well as if were on paper, in print.
- No. 5. The Mental picture has generally a dim, misty, background.
I have never mistaken a mental image for reality.
- No. 6. Numerals &c are not associated with me in my mind with a peculiar mental imagery
- No. 7. I have great aptitude for recalling music. Whenever I do, I see mentally, a pianoforte, & always imagine I am playing. If I were humming or whistling, I could almost always name any note you stopped me on.

6.26
16

~~A. S. P.~~

1. Very fairly clear. Yes.
 2. All the objects are pretty well defined but rather contracted.
 3. Quite.
 4. Within the eyeball. Yes that is to say I can see an image on a blank piece of paper if I choose.
 5. None whatever. Yes often.
 6. Numerals seem to be always associated with a sort of diagram
 7. Each dot represents a numeral with larger ones at every 5th one. After so they are very close
- 1000
100
90
80
70
60
50
40
30
20
10
5
1
- 9 & 10 always close together.

together. I always had a particular
liking for the number 5 and
any multiple of it I suppose
because the 5-line is the
easiest in the multiplication
table. In the same way I had
a particular dislike to 13 because
it came just after 12 and I couldn't
multiply by it by short multiplication.
Minus quantities come in the
foreground before 1.

Dates seem just the same and I
can remember them much better
if they have anything to do
with 5.

13. Yes I can always imagine it and generally recall what I have heard.

Book Powers.Visualized Numerals

1. The image is fairly clear. Its brightness is not quite so bright as the real scene.

2. The objects are fairly well defined at the same time.

3. The colours are quite distinct & natural of every thing that I now see before me.

4-5) The images appear at the distance which it was in the real scene.

Q.) The only difference between an Image called up in the dark & one called up in the day time, is that at night all the surroundings of the Image are dark & in the light they are light. I have never mistaken a mental Image for reality.

Q.) Numerals are invariably associated in my mind with a mental "scheme". viz. from 1 to 20. There is a straight vertical line 0 being just before where the line begins. at 20 the line goes at right angles to the vertical one. & contains the figures up to 100, where 1000, 10.000 etc. go off upwards into space. If I wish to count 1000, I count up to 100 & add two 0's onto the one. & so on till I get to 10 over which number is a thick black line. beyond which begin 13, etc. I cannot account for this image in any way.

13. I have only a very slight power for recalling music, which seems to fade away as soon as I have called it up.

Scheme of Figures

18

Charterhouse,
Godalming.

1. Fairly Clear. Yes.
2. Yes. No.
3. Yes.
5. Within the Head. No.
9. No.
10. No.
13. No.

X TARD

22-342

~~CHARTERHOUSE~~

19

Opinion

1. The image is quite clear.
2. The objects are all of them pretty clearly defined.
3. The colours of everything are, for the most part, distinct and natural.
5. Mental images seem to be situated at a distance corresponding to reality.
9. The mental picture called up in the dark is not quite so distinct as the real scene. No.
10. From 1 to 20 the figures seem to be standing in front of me perpendicularly, from 20 to 30 they turn off to the left and are very close together from 30 to 40 they turn still more to the left and are much farther apart from 40 to 100 they go quite straight getting more and more indistinct and they go on.

13. No.



What types 20

1. The image is fairly clear
2. Most of the objects are pretty clear though some are hazy, they all appear at the same time
3. All the articles are distinct with their colours.
4. They seem to be situated within the head. No
5. A real scene is much more distinct. No
6. No.
7. No.

- 1 In some places the picture is nearly invisible
in others it is as bright as the actual scene
- 2 See some of the objects much more clearly
than others The objects that stand out
most, appear to be of the same size as
in the actual scene
- 3 Yes they are
- 4 Just in front of the eyes.
I can project a few plain figures
especially when the figures are composed
of straight lines
- 5 I do not see much difference except I
think the scene seems darker
I never have taken a mental image for a
reality
- 6 Dates of the kings of England appear to me
in 2 columns side by side In the first column
from William I to Elizabeth & 2nd column from

James Ist to Victoria

When I ~~wish~~ require any numbers I have to call it up before me I do not seem to have any diagram or anything else of that kind

13 I have not much much power for recalling music

22

- I. Clear, it is comparable with actual scene
- II. The place where definition is clearest is near the corner of table where I sat
- III Fairly so
- IV Within the head, as if a looking glass were there in which images are reflected
- V No difference: I have never had day dreams
- VI. When I think of a number I see it printed as if was in Colenso. I can account for it, as it is the first book I learned from. I have no dreams.
- VII I can generally recall music if I've heard it once or twice

1. As I am very short sighted, and sit adown to table. ~~I~~ ~~sit~~ ~~at~~ the without my glasses on, I never see the table very clearly; but the mental vision is about as distinct (or indistinct) as the actual sight.
2. The mental vision is all about as clearly defined as the real vision.
3. The ~~the~~ colours are quite natural, but rather & dull, owing to my short sightedness.
5. The ~~as~~ mental images appear to be situated at a distance corresponding to reality ^{in the paper}.
I do not understand the last sentence.
9. There always seems to be an absence of light in such a case, and the space seems to be rather contracted.
10. ~~To~~ Numerals up to twenty I always see in my mind as on a clock's face & as if the figures after twelve went on, only of course "twenty" appears to come where VIII really comes. All other ~~to~~ Numerals & dates appear as if printed
13. I can remember music rather well.

Charlestown

F.37

24

Fair at F. 19
apparently

1. Fairly bright
2. One place seems brighter than another when I look at it
3. Yes, quite
4. Rather farther than the real thing would be. I could not draw it very well upon paper
5. The difference between a mental picture in the dark & a real scene is that each part seems brighter as I look at it & fades as I look at another. I have never mistaken one for a reality.
6. I have always thought of minerals as personages. 1 as a youth 2 as a young lady 3 her companion, 4 a brother 5 an old dame 6 the mother 7 - a reckless young man, 8 a learned sort of woman 9. a very powerful man. 10 as a married couple. Dates I have thought of as groups of these people talking.

(~~1017~~)

1. The image is rather dim, not so clear as the actual scene.
2. All the objects are pretty clearly defined.
3. All the colours are quite natural.
4. The images appear to be within the head, I cannot project them on paper.
5. There is some difference between the image and reality, the image is more dim and rather misty, I have never mistaken an image for reality.
10. Numerals etc. are not associated with imagery.
13. I can mentally recall music.

W. [redacted]

- 1 The image of the breakfast-table is quite clear, its brightness is quite comparable to that of the actual scene.
- 2 The objects are all well-defined exactly at the same time, I can remember perfectly well the various hues of a bad egg, I do not know what the second part of the sentence means.
- 3 The colours of everything mentioned are quite distinct and natural, I can quite well see the little heaps of crusts as they were on the table, and can remember also the expressions of a great many of the fellows faces exactly.
- 5 I think that my images appear to be at a distance corresponding to reality, but I am not quite sure, my home always appears far away (I live at Leeds)

9. I see no difference at all between any picture called up in the dark from what it really is, having ~~salled~~ come home from the theatre one night and thinking about it in bed I remembered quite well the different scenes, I do not think I ever mistook a mental image for a reality.

10. I sometimes think of figures as they are printed in books sometimes just as I should write them down myself, they never come to my mind (unless I make them) in any other form at all.

13. If you mean by mentally recalling music, what the different pages are like that I play, I can do that quite well and sometimes, though not in every case ~~can~~, can remember where the different marks of accent are placed

1. The image is fairly clear but changes at times. its brightness is not quite equal to that of the actual scene.
2. The objects are all defined alike at the same time.
3. The colours are all quite natural and distinct.
4. The mental images appear to be situated at the same distance as reality.
5. A mental picture does not seem to be quite the same as a reality, because it is not level with the ground but on a slope.
6. Numbers and dates appear as if printed on a piece of paper just in front of the eyes.
7. I can often recall music, which appears to be written in the head.

(b. 4000)

1. The image appears fairly clear. But it is not quite so bright as the real scene.
2. I see more clearly the one particular portion of the picture that I bring up before the mind's eye, and upon which I concentrate my thoughts than the surroundings; and that particular portion is rather more contracted than the real scene.
3. They are quite.
4. Within the eye-ball. —
5. I perceive little or no difference in the picture but I keep in mind that it is only the picture and not the real scene! Neither have I ever mistaken the picture for the reality.
6. Generally when I mention figures or dates ~~I see~~ them distinctly before me, and I generally associate a date in my mind with some place, the manner of taking it, or connecting

circumstances. When I have learnt something and have to repeat it I have a copy of the page before me, this is especially the case when I do not feel very sure of it. But I can hardly say that I have a visualized numerical diagram.

Some numbers seem to be (as personified) clearer and more distinct than others, which may be either from there being in the figure really more distinct & marked, or from the shortness of their "names" and quickness in their pronunciation, but the words which appear the brightest & clearest are 'even' numbers, so that it may simply be from the fact of their being even. And I appear to have a preference for the 'even' numbers to the 'odd'.

19. I often after having heard music have it playing in my head, but am unable to put it into correct sound, and again perhaps some days or even a week or two after I shall be able (accidentally perhaps) to produce it in sounds.

* a figures

I am able to recall (mentally) a piece of music that I know well, and can imagine it though not very clearly.

-
1. I used when little to fancy and say that names were different colours, for instance the name "John" might have been brown. Henry perhaps a decided blue. etc.
 2. I have often thought of something, when in some place and position, and upon leaving the place and going way have forgotten what I have been thinking about, but upon resuming my former position in the same place as before, the whole subject comes back again to me.
 3. It has occurred to me that very likely what we "see" in our dreams is the picture in the mind's-eye of some person, place or thing, that we have seen on some previous occasion, and is recalled in the mind, or perhaps a subject in

some book that we have lately read is brought
up as a picture before us.

H. W. Underdown.

29



Lockites. Under fourth A.

1. Yes! the image of my breakfast is before me, & very clear
Yes! it is like the actual scene.

2. All the subjects come at the same time,
 3. The colours are all before me except of the
crust of the bread & quite natural-
 5. It is just in front of my eyes.
Yes! I can project an image on a piece of paper.
 9. I see a kind of hazy appearance in the picture
brought up in the dark.
I have never mistaken a mental image for a reality.
 10. Figures & dates are never in my mind with mental
images except when specially learnt.
 13. I have aptitude for mentally recalling scenes
& for imaging it.
-

Saturday.
Feb. 1880.

- 1). The image is rather dim, and the brightness by no means comparable with that of the actual scene.
- 2). No.
- 3). Yes.
- 4). They seem to be at a distance corresponding with reality.
- 5). The image is much fainter. No.
- 6). No. Whenever I want to multiply figures I see them as I should put them down on paper.
- 7). Yes, certainly so.

~~B~~

1. The image of my breakfast this morning is very clear indeed,
2. All the objects are pretty well defined I can remember the beginning of it much better than the end.
3. All the colours are quite distinct.

5 Mental images seem to me to be just in front of the eyeballs. I

9 I have never mistaken a very vivid mental picture for reality. I do not perceive any difference between a very vivid picture called upon the slate [&] for reality.

8 Numerals & dates are not associated in my mind with any peculiar mental imagery, I simply see figures as if written by myself.

13 I have rather an aptitude for mentally recalling music but none for imagining it.

1. The image is fairly clear but ~~not~~ its brightness is not comparable to the actual scene.
3. The colours are quite distinct & natural.
5. Mental images appear to be situated just in front of the eyes. I cannot project an image on a piece of paper.
9. I have mistaken a mental image for a reality when in ~~poor~~ health & wide awake.
13. I have no aptitude for mentally recalling music & for imagining it.

- ~~QUESTION~~
- 1) The brightness & clearness of the image is equal to that of the actual scene
 - 2) I seem to see the things as if I was now looking at them
 - 3) They are quite distinct and natural
 - 4) They are at a place ~~are~~ corresponding to reality
 - 5) None. never.
 - 6) In printed figures. dates in history dates I generally by their place or the page I learn them off
 - 7) I can recall any piece of music which I like particularly

~~W.W.G. L.~~

1. The image is fairly clear. Yes
2. The objects are pretty well defined at the same time
3. The colours of the things which were on the table are quite distinct and natural
4. The mental images ^{appear} to be situated just in front of the eyes. No
5. I do not think that I perceive any difference between a vivid mental picture, called up in the dark, and the real scene. Yes
6. I do not think so
7. I have an aptitude for mentally ^{re}calling music

J. S. S.

35

1. The image is fairly clear, but the brightness is not comparable to that of the actual scene.
2. Yes they are all pretty well defined at the same time.
3. No the colours of China toast bread crust etc are not quite distinct & natural
4. The images appear to be situated just in front of the eyes. Yes If I had the power of drawing well.
5. That the bird mental Picture appear to be all in confusion, No.

10. No —
18. Yes

~~W. J. Dunc.~~ 38

f.52

1. The appearance of my breakfast table
is quite ~~plain~~^{clear} before my eyes
2. I can define all the objects
pretty well.
3. The colours of the things are
quite plain
4. The images appear just in front
of my eyes.
5. I have never mistaken a mental
image for a reality.
6. If I think of a number it
appears to me as written
by myself

1. The image is perfectly clear & comes exactly as clear & bright as it really was.
2. All the objects are clearly defined in one place as in another.
3. The colours are quite distinct & I can see the colour I need from etc perfectly.
4. I can remember what I have seen quite well enough to put it upon paper but as I cannot draw very well I don't think I could convey a very good idea but I ~~could~~ could do it much as well as I could write it.
5. I see no difference between vivid images, except when I try to touch them off. I have never mistaken a mental image for reality.

- f.54
- 10 I always fancy I see dates as they are
printed in newspapers thus for January 1st
I fancy I see JAN 21. in numerals ~~I general~~
see in my own handwriting (1234567)
I have no diagram of numbers & no colors
are associated with any numbers
13. I can recall a time I have heard
once or twice but I never ~~forget~~ imagine
it.

1. The object is fairly clear, although it is not so bright as the original.
2. I can see the general effect of the table, but any object on it at which I imagine myself to be looking is more sharply defined than those around it though not so sharply as in nature.
3. The colours can be distinguished but they share in the general darkness of the objects themselves; but if I think of a picture that I have seen, the colours appear almost as bright as the original. as I have seen them & much brighter & clearer than any thing in nature that I think of; perhaps this arises from the fact that I look closer into pictures than I do into anything in nature.
5. The image appears to be situated at a distance corresponding to reality.
I can put the general outline & relative position of the objects onto paper, but I can not remember all the little minutiae, such as the holes of the bread, & the marks on the clothes &c.

9. I cannot call up an image so vivid as the real scene & have therefore never mistaken one for a reality.
10. I have no peculiar mental imagery for nos. or dates. When I try to multiply numbers in my head I see them as they are written, at other times they are sometimes printed, though more often written.
Dates I always see ^{exactly} printed as I have read them
13. No. But I am not musical.



- 1) The image is sometimes clear & sometimes dim.
If I try & think about it, it generally becomes less clear.
- 2) The objects are generally well defined
- 3) Yes.

4) At a natural distance

I could not project an image, as the distance would always be ~~definite~~ natural & I have no control over the distance at all.

- 9) No difference but I have never mistaken a mental image for a reality except in a dream.
- 10) The numerals are always seen in the ordinary Arabic figures. When the numbers get very large, I see them as if they were written.
- 13) I can recall music & maybe in, but the harmonies which I ~~imagine~~, I could not play, or tell what they are.

43

f.57

1. Dim. No.
2. Yes, No.
3. No Yes.
4. At a distance. No.
5. No
- 10 No
13. No.

Y l

44

I have no power of calling
up any picture such as a
breakfast table, but I can
recall any face.

T. Y. Edson

45

f.59

If I have no power to call up any vision
of a breakfast-table or anything else

I always count on my fingers throughout
mentally

~~G. H. C. M. A.~~

~~Handwritten~~

- 1) Very clear. Yes.
- 2) Yes. No.
- 3) Quite distinct.
- 4) At a distance corresponding to reality. Yes, if I were able to draw.
- 5) A mental picture appears mostly I shall compare with a real scene. No.
- 10) No. I see no diagrams or colours when I think of a number, at all.
- 13) Yes. I can generally recall any piece of music I have heard, however long ago it was.
-

f. 17

38. Moultrie Terrace
Cheltenham.

July 27.

Dear Sir.

I take the liberty of enclosing some answers to a shortened form of your questions. I shortened them for two main reasons; first as I had thought of giving them bays only I wished to simplify what they had to think about.

Secondly, for the convenience of "kilotyping" the questions, to get them on one page.

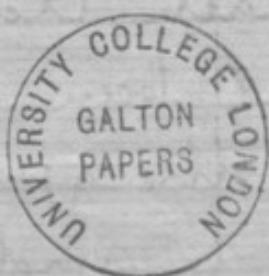
The one of ^{answers} ~~copy~~ sent is very small I am aware; but at present I have very few bays in Science (as I belong to the Classical department which is the smaller, and these teach only heat); and only the lowest bays in each class in mathematics. If I had been here longer I cld. have given the questions more generally about; and even as it is I cld. have perhaps got more had

I not felt my hands full with
work still remain to me. ~~thereof~~ ^{8/iv}
However, I send such as I have
got, & hope they may be of
some use. I enclose also a copy
of the shortened questions and a
list of reference to the papers of
answers.

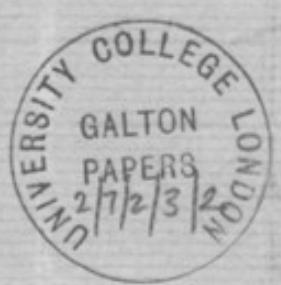
Please do not trouble to answer
this; indeed as I am just going
abroad all answers would hardly
reach me & get lost.

I am yours very truly
Walter Barden

The answers are from the best
of my Science bags; & a few
masters etc.



f.2r



f.2v

To

Francis Satten Esq



M

- 1). Consider a landscape in your mind. In this mental image—
 - (i) How much can you see at once? As much as in reality, more, or less? Can you (e.g.) see two sides of a globe at once?
 - (ii) Is the image steady and of constant brightness? Or is it uncertain and flitting and of varying brightness?
 - (iii) Do you seem to see it outside of you, or inside your head? If outside, is it at the natural distance?
 - (iv) Can you mentally picture a scene from a book, from mere description?
- 2). Can you form an image of a friend; make it turn or sit down; draw a portrait from it? If not, say in what way you cannot.
- 3). When tired of holding a mental image; what part gets tired; the eyes or head; say where the fatigue is felt.
- 4). Have you ever mistaken a mental image for reality? If not, how does it differ from reality?
- 5). Have you any mental picture connected with numerals or dates? Do you (e.g.) see the numbers 5, 55, 155 in any position in space? Draw any picture on a separate paper, and explain fully.
- 6). Give any information as to your way of doing mental arithmetic; playing chess blindfold etc. Do you picture the numbers, or board?
- 7). How do you mentally recall a passage in a book, or music? By a printed or written image in your mind or how?
- 8). Mentally picture the following sensations, and say whether they are vivid and like reality or not.
 - (i) An evenly clouded sky; first bright, then gloomy.
 - (ii) The sound of rain on a window; the clink of tea-things.
 - (iii) The smell of tar, roses, candle blown out, violets, tobacco.
 - (iv) The taste of salt, lemon, currant jelly, chocolate.
 - (v) The touch of velvet, silk, gun, sand, prick of a pin.
 - (vi) Hunger, heat, cold, thirst, fatigue, fever, drowsiness.
- 9). Give any recollections as to the increase or decrease of this power since childhood. Does practice improve it, do you find?

Please number your answers.

- f. 4r
- 1). Boy in college; thoughtful & to be trusted for careful account. A term for science.
 - 2). Boy in college; a term for science; not so thoughtful as no. 1.
 - 3). D^r Ferguson; a scientific man.
 - 4). Boy in college; term for science; thoughtful, & to be trusted for careful account. As mentioned in his answers had a severe illness affecting head & stopping work, impairing memory of previous events.
 - 5). Boy in college; likely to be fairly careful. Not very scientific.
 - 6). Boy in college; very able at everything, Balliol scholar etc; perfectly trustworthy.
 - 7). Master at college; not scientific or given much to consider such questions.
 - 8). A science & math. master.
 - 9). His wife.
 - 10). Boy at College. Thoughtful & trustworthy; but not ~~not~~ very quick.
 - 11). Boy at Collx. Thoroughly thoughtful & trustworthy; just going to Oxford.
 - 12). Master's wife; a literary woman; writes on poetry.

P.T.O.



have set up for
 ; some of us &
 for ; view of us & ; sell
 ; some of us & ; sell
 some types of business &
 now a tool known and in
 how fast & had stopped
 don't mind & never said
 there day & I tell ; sell is good
 ; but now to the
 ; about thereof ; the not be killed
 & influeⁿ to ; sell to work
 ; and the new ideas & new way
 , record I had a word &
 ; open with
 ; nothing ; sell to good . (0)

Note. By "trustworthy" I mean that (in my
 opinion) the person in question can be trusted
 give only as much as he can really answer for.
 I find it a subject in which, without any
 intended inaccuracy, people begin to create experiences
 when they begin to think about it. I only use the word of boys.

I

Scot Skiving 6.5

(1)

(i) As much as in reality, but no more. I cannot see two sides of a globe at once. But I can imagine first one side and then the other, so that it almost seems as if I did see both at once.

(ii) The image is steady while it lasts, but it requires an effort to keep it before me.

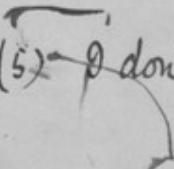
(iii) Outside of my head, and at the natural distance.

(iv) Yes, to a certain extent

(2). I certainly could not draw a portrait from a picture of a friend: and I think I can only make it turn round or sit down by remembering having seen the friend do so.

(3) I don't know exactly: neither get tired: the image fades almost without my knowing it.

(4) No, never: the image lasts too short a time.

(5)  I don't think I have any mental picture connected with

- 5 dates numerals. In remembering dates I remember the part of the page the date was on, & so in learning repetition, the only way have is to have a mental image of the page before me and read it off. In remembering the months of the year, the end of each month seems to be a corner, and the whole year seems to twist round, till you arrive at the beginning of the next one.
6. In doing mental arithmetic I do not think I picture the numbers: I could not keep the image in my mind long enough.
7. Yes: I do recall it by a printed image: but after you get to know a passage very thoroughly, such as a song, I can remember it, as it were, without having to look at the image in my mind. I think that if you had a very perfect power of this sort, you could do without the mental image.

8. (i) Yes, the clouded sky is fairly vivid: I think the gloomy is the most so.
- (ii) Yes, both.
- (iii) I can picture the strongest & best defined smells, especially tobacco.
- (iv) I can picture some of these tastes, especially salt, and the more clear and distinct the taste, the better the image. I can recall anything very bitter, or very sour, best, and the less distinct tastes not so well.
- (v) I cannot picture the touch of these substances so well. But I can to some extent: especially some unpleasant touch, such as rubbing your hand against the lie of cloth.
- (vi) Hunger I cannot picture in the least: thirst hardly at all: as to cold, I can picture the feeling of having your feet sore from frost, but not simply the feeling of shivering.
Heat, not unless it is ~~very~~ great, such as a very hot sun.
- Fatigue, yes: fever, no, because I never had it.
- Drowsiness, yes: drowsiness and fatigue seem much the same.

- VI. Any very clearly defined or unpleasant sound is the easiest to form a picture of. I can very clearly picture the squeaking of a pencil on a slate.
- (9). I think this power has remained much the same since childhood, and I think ~~it~~ practice decidedly improves it.



VI

f.8v

Leaves towards me a limited number from each
and in species more or less. so which a large
number of species, as a great number

- |

VI In the mental image which I have considered

(i) I seem to be able to see the whole scene at once, when thinking of a globe I imagine I can see right through it. In all cases I can see much more than in reality.

(ii) Whether the image is bright or not entirely depends on my frame of mind at the time when I saw it, if it is altogether imaginary it depends on my frame of mind when I imagine it.

(iii) I always see the image inside my head, and I think that it is at quite the natural distance



II



(iv) Yes; I can always picture a scene from mere description, but when I see that scene it never coincides with my image of it. If a person is described I find I can form a much more accurate image of him.

2. I can form a very good image of a friend and can make that image do whatever I like. Although I cannot draw, yet I could represent the actions of the image by a figure which would exactly convey the right attitude ^{motion} to myself.
3. When tired of holding a mental image I feel the fatigue in my head, particularly the back part.

III

4/ No, I do not think I have ever
made this mistake

5). With regard to dates at the present
year seems quite close to me, while
the others fade away gradually until
the year 1066 which does not seem
so far from me as the century after
The life of Christ seems much nearer
to me than the period between it
and 1066.

6. When doing mental arithmetic
I fancy I am writing the numbers
down and by remembering these I work
the sum. I ~~do not~~ think of the
board ~~at~~ all the time I am playing
blindfold; but it is not easy to
play.



IV

7. For some time after reading a passage in a book, I remember the print very well and on which side of a page such and such a fact occurred, but after some time the print fades from memory and I can only remember the facts.

8[i] I can think the sound of rain on a window is very like reality, also the chink of tea-things

With regard to 3 2 5 & 6 I consider, having imagined them, that their corresponding sense is very appropriate.

9) I find this power gets more sensitive as I get older, I think practice improves it.



✓
Replies to Questions.

- 1) Yes. (i) can be much more than in reality.
 (ii) steady & of constant brightness
 (iii) clearly outside & at natural distance.
 (iv) Yes.
- 2) Yes
- 3) Some tiredness was felt in the eyes, after a lengthened trial & it seemed that the image was largely dependent for clearness on an equal contraction of the outer muscles.
- 4) Yes, often, whilst feverish & chiefly after taking opium; the mental image differing from the real in scarcely anything save in evanescence; that is to say, when directly looked at, it immediately passed on one side, out of sight & was evidently plainer at the margin than in the centre of the field of view.
- 5) Yes. I see numbers as on a sheet of paper before me.
- 6) I always picture the numbers as on a sheet of paper before me & set down & remember the figures given by the different operations.
- 7) I find (rather inconsistently with the above) that my recollection of prose & verse passages is quite unconnected with images. Each word suggests the next & the passage is recited without images & without effort. This department of memory, is with me, connected with the association of sounds & it may be worth remark, that I find metre far easier to remember than prose & can even better remember some dry anatomical details when I have strung them together into hexameters.
- I find it decidedly easier to recollect prose or verse passages when the lips, or at any rate, the tongue are allowed to move accordantly with the words remembered. My recollection of musical passages, whether sung or played, depends largely on the reproduction of a fixed series of muscular



movements, either of the hands, as in playing, or of the Larynx as in singing. ^{Definite & related} I cannot mentally recollect a ~~single~~^{single} without a sense of muscular movement in the throat. If this be wholly restrained, the recollection becomes most imperfect.

- 8) (i) both vivid & like reality.
 (ii) easily & faithfully pictured mentally
 (iii) cannot 'picture' any of these;
 (iv) nor these
 + (v) } all 'pictureable'.
 + (vi) }

9) Has altogether decreased since childhood; but at the present time manifestly improves after even moderate practice.

G B Ferguson M.D., M.A. Oxon., M.R.C.S. E.
 Surgeon to the Cheltenham Hospital
 & other Institutions.
 June 3rd 1880.





3

1.j.

In a landscape, all the points which would be visible to the eye ~~are~~
 cannot be seen at once in the mind by me, they seem to be
 there in a hazy and indefinite manner round the point at
 which I look. I cannot see two sides of a globe at once

(i) The image is unsteady and of changing brightness, ~~and~~ grows clearer
 by degrees.

(ii) I certainly see the picture outside my head, but only at a little
 distance away, about a foot or so.

(iv) I cannot picture it instantly but recall pictures which I have
 seen before, in the first place, after a little while however
 I can

2. I cannot, when I change the position of the figure the face
 seems to vanish and a confused mass takes its place

3. I seem to tire just above the eyes towards the fore-head

5. Stars seem to go up and down perpendicularly, the
 last or latest one seeming the brightest and the others growing
 smaller or darker.

6. In mental arithmetic, I picture the numbers before
 me, ~~not the board~~.



- I Recall any passage from a book by picturing the page /
on which it is. I remember the printed words. I
do the same in music
- II. This is pictured very vividly and like reality
- III. Both these are also pictured vividly
- IV. These I can hardly picture at all
- V. The taste of a lemon, but not of the others I see can
picture vividly
- VI. I can picture vividly the touch of, gum, sand, and the
brick of a pin, but not velvet or silk
- VII. I cannot picture hunger except when I feel it
- Heat, cold, and thirst I can picture easily and vividly
- Fatigue and fever I cannot
- Drowsiness I can a little but not much
- VIII. I cannot recall things nearly so easily and vividly
now as I could before illness, but I can recall
any scene I noticed within two months so as to draw
a picture containing all details of it. I think practice
does improve the power but increase of age lessens it.



over surface are present both exterior of rock
is however considerably less extensive than interior
part where it occurs. Surface part measures 20 m. across
between two points, the distance being measured in a direction
across, recent gravel derived from

in recognition of which the following

bedding and other structural

and also of some large stones found near surface

11. A small number of fine sand

stones (about 10 mm. diameter) were found in a thin layer of fine sand about 10 cm. thick.

Material

12. A thin layer of fine sand (about 10 cm. thick)
with fine sand intercalated with fine sand
and also a few small stones (about 10 mm. diameter)

13. A thin layer of fine sand (about 10 cm. thick)
with fine sand intercalated with fine sand
and also a few small stones (about 10 mm. diameter)

(4)

A. M. H. Rawlinson

Cheltenham College

1880

I



- 1) I can see the landscape very clearly, and about the same as in reality.
 - (ii) The image is steady for about two or three minutes, and the colours are of constant brightness, but after that time the colours lose their reality and become uncertain.
 - (iii) I see it outside my head, and it seems at quite a natural distance.
 - (iv) Yes I can, and always do so when I read a book.
-
- 2) I could form an image of a friend and draw a portrait of him, in the attitudes in which I generally see him, but my imagination would not be vivid enough to put him in any extraordinarily attitude.

(2)

Rawlinson.

f.18

- III When I hold a mental image for some time, I get a pain across my forehead.
- IV When walking sometimes by myself in an absent way, perhaps I am thinking of someone, when suddenly I fancy I see him passing me, but looking up I see no one -
- V Do I have not
- VI I do my mental Arithmetic on an imaginary board.
- VII I recall a passage in a book, from sheer memory.
- VIII.
(1) not very vivid
(11) very vivid and like reality, especially the tea-things.



(B)

Rawlinson

f. 19r

VIII.

(iii) very vivid and like reality. (2)

(iv) very vivid

(v) very vivid

(vi) danger not at all vivid

heat vivid and real

cold vivid and real

thirst not vivid at all

fatigue not at all vivid

fever not at all real

drowsiness. not at all real.

IX. It has decreased rather than increased,
and practice does not improve, except
in the case of mental arithmetic.



f. 195

5.

①

Elliott

f.20

- 1.
- i. Just as much as in reality. I certainly can't see two sides of a globe at once.
 - ii. steady & of constant brightness
 - iii. Inside my head
 - iv. life, without any difficulty.

2

I can form an image of a friend in any position & draw a picture from it but I naturally see it in one fixed position, though I can also make it more about.

3 Certainly not the eyes. I suppose the head. In most cases I find the image merely faded without any painful sensation.

4 Never. I see the mental image ^{inside} ~~outside~~ ^{inside} my head, not without me as is the case with ordinary objects

5 I have no mental pictures connected with dates or numbers, though I have no difficulty in forming an image of any particular numbers either printed or in handwriting.

(2)

f.21

6
I do mental arithmetic by an effort of memory & do not see the numbers before me. Now that this other method is suggested to me I think I could use it.

7. In thinking of a book I can form an image of the scene as I imagine it, or recall the way in which it affected me, but I certainly should never form an image of the printed words unless thinking of some beauties of the type etc.

I am not a musician enough to recollect the notes of a piece, but I do not think I should ever recall the printed note when thinking of the tune.

8. i. I can imagine either quite easily. I naturally recollect a clouded sky I have seen upon some particular occasion, with the particular scenery I recollect, but I can also form a hazy imaginary scene, unlike, as far as I know anything I have ever seen.

(3)

8

- ii. I can recall either sound quite vividly; when doing so I naturally form a mental image of a rainy day or a tea-table.
- iii. I can recall the smells - they naturally suggest images of the objects which produce them.
- iv. and ^{so} with regard to the taste
- v. I find more difficulty in imagining the touch of velvet. I can form a clear enough image of the substance, but the sensation of touch is not vividly reproduced.
- vi. I can only ~~imagine~~ imagine these by recalling times when I myself or people I can recollect have been in these states, or by imagining conditions likely to produce these states as a furnace or snow storm.
- q. I do not think the power of forming mental images does increase much. When 2 or 8 I could form quite as vivid pictures of imaginary scenes as I can now.

C.N.E. Elliot: Cheltenham.

f.22v

6.



I (1) less - No. unsigned f.23r
a master

f.23r

(2). uncertain sp.

(3) Trade.

(4) Yes.

T. Yes.

III The head. (forehead)

IV B No -

II. 14

IT. I see the numbers as I do the sum.

VII The next word follows by another

VIII (1) Yes.

(2) Yes Yes

~~E~~. I think it gets less wind

£.23*v*

off

5th March (3)

23.1.18

7 off (4)

all T

(bacteriology)



all off as shown above

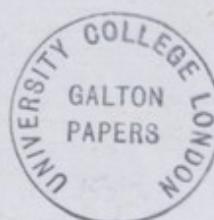
- i) As much as the eyes take in when fixed on one point.
- ii) Only by imagining the globe transparent. Uncertain & flitting.
- iii) Outside, at the natural distance.
- iv) Yes; but not readily.
- v) Yes.
- vi) The brain, not the eyes ^{in being much less vivid & distinct.}
- vii) No. It altogether differs from reality. It requires considerable mental effort to keep it even for a second or two. few seconds.
- viii) No.
- ix) I use no mental imagery, and do mental arithmetic by memory & with difficulty. I should play chess blindfold; by mentally picturing the board; but with difficulty.
- x) I do not know. By no remembered image.
- xii) i) Not vivid ii) Easily and well
iii) Small - with difficulty & imperfectly
iv) do do do
- xv) Touch - Easily & well
- xvi) Hunger - well - heat - well - cold, well - thirst well - fatigue not well - fever well ~~advertisements~~
- xvii) ~~Gall~~ ^{not with} more readily imagine faces &c when a child. The power of picturing geometrical solids & machinery &c... ^{suspiciously} ~~practise~~

- 1) (i) As much as I should see in reality.
 (ii) The image is steady & of constant brightness.
 (iii) outside - at the natural distance.
 (iv) Yes, very vividly indeed.
- 2) Yes.
 3) I don't know.
 4) No.
 5) I have no mental picture connected with numerals but when recalling dates I invariably picture them in their places on the pages of the book I first saw them in & learnt them from.
 6) I picture the numbers and mentally write them down as I should if working with pen & ink.
 7) By recalling the printed image.
 8) (i) Can picture an evenly clouded sky but have difficulty in making it change.
 (ii) Fairly well - vividly.

R.D.D

- C.25v
- (iii) Turnery vividly - Roses fairly so - Candle vividly - violet no.
Tobacco only pretty well.
- (iv) Salt no. Lemon vividly to a painful degree.
currant jelly & chocolate hardly at all.
- (v) Only slightly all these.
- (vi) Vividly hunger — heat & cold ditto. Thirst ditto -
fatigue, fever & drowsiness very slightly
- q) I cannot say whether the power has increased
or decreased. Practice decidedly improves it.

21



F.26
Hodge

1.

1) (i) I can see a good deal more but not when I first shut my eyes, then I only see the most striking point.

I can see two sides of a ball distinctly

(ii) Headache of constant brightness.

(iii) @ 6 inches + at the natural distance.

(iv) Yes

(2) Yes, very early

(3) I feel pain in the front of my head & my eyes feel dull ~~& I can scarcely~~ & if I try to read they hurt. When tired of etc etc

(4) Not that I know of.

(5) The numbers 5, 55, 155 do not appear to have a certain position but they seem to come in the

left	55	55	155
right side	5	55	

2.

) good

- (6) I picture the numbers in arithmetic as if I was doing the sum on paper.
- (7) The position of the piece on the page helps me &, especially in saying repetition.
- (8) (1) A bright evenly clouded sky is vivid & like reality but I cannot imagine a gloomy one.
- (2) Both are very vivid.
- (3) All are vivid & like reality
- (4) Ditto, especially the lemon.
- (5) Not quite so vivid as No. (4); except the kick of a pin.
- (6) I cannot feel fever but perhaps that is because I have never had it. The ~~fever~~ are very vivid



3.

Bodge
f.28r
III B

8. (6) especially hunger.
9. I don't know whether it has increased or decreased since childhood.



10.00

2111

f.28v

محل در سند (روزهدم)

(د)

بـ (کـلـمـهـ مـلـکـهـ مـلـکـهـ) مـلـکـهـ

پ



10.

امیر لاریان

H.G. Guille.

f.29

- 1) The same as
- (i) ~~Hold your eyes open~~ in reality. Can see it all at once, but it is dim and requires the concentration of thought on each point to bring out the details.
A globe would appear as in nature and I cannot see both sides at once.
- (ii) The image is steady and constant.
- (iii) At the natural distance outside the head.
- 2) I could certainly form an image of a friend make it turn and draw a portrait of it.
- 3) The eyes which you strain to ~~see~~ realize the image seem to get tired.
- 4) ~~Surely~~ I shd not mistake an image for a reality, because I can only see it when I try to and it seems more shadowy than the reality.
- 5) I could picture to myself figures I had seen written on a black board, but I could hardly picture any number I chose in space. It did not seem natural that numbers shd exist except on paper etc.



Smile.

f.30

6) In doing mental arithmetic I shd not picture the figures in columns as on paper; but in adding together, say 45 and 66 I'd remember these numbers and reckon $40 + 60 = 100$ and $5 + 6 = 11 \therefore$ total = 111.

7) I shd not see a picture of a passage in a book; but I shd remember the words. I shd however picture to myself its position on a certain page for instance.

8)

- (i) I could mentally picture the sound of rain on a window, but the chink of tea-things wd be especially vivid, I suppose from its constant occurrence.
- (ii) I could not mentally picture smells.
- (iv) My sensations of taste wd be stronger, but still very weak.
- (v) I could vividly picture the sensation of touch such as the setting on edge of the teeth on rubbing the hand over velvet, or the sharp prick of a pin.
- (vi) I could not realize the sensations of hunger and thirst if I was not in want of food and water, though I could remember the feeling.



8 (vi) In the same way I could not experience the sensation of heat in cold weather or vice versa.

Drowsiness and fatigue would be easy to realize because laziness is one of the prevailing weaknesses of human nature, and it is easy enough to fancy oneself sleepy unless under the pressure of excitement.



H. G. Guille.

"Imagination"

II.

f31v

- i I can see a range of hills, I can see a town lying ^{nearly}
at the foot of them, I cannot see in my mind the
country that lies between. Nor can I see much of
that which lies between me & the town. See less
than reality. I can see in my mind nearly the
whole of a play but there is one part I cannot.
ii The image varies with the concentration of my mind
upon it, when I first call it up it is hazy and
seems to grow clear the more I dwell upon it.
iii It seems to lie just outside my eyes, so that there
is nothing between them & it.
iv I ~~cannot tell~~ ^{try} to realize what I am reading about
unless I make a mental picture of each scene as I
go on.

2. I cannot make the mental image of a friend do
anything I have not seen him do before; if I
could draw at all I could draw attitudes & looks
I have seen but none that I have not.
- 3
4. In feverishness I have seen forms and faces which
I have mistaken for reality, I have also seen
landscapes of wonderful beauty but I knew they
were not reality because I could see some of the
pattern of the wall paper beyond them, and the
forms & faces have for the most part been flat,
like pictures.
- 5
- 6 In doing mental arithmetic I seem to have a
slate in my head & I put down my figures on it
& work ~~out~~ the sum, so that in giving the result I
read off the answer.
7. In recalling a passage from a book ^{now}. I stored
have an image of that book before me, & have an
idea of the part of the page it was in, but with
polite that I knew well I stored not see the
book but the words would appear printed before me
in space.

8

- i. I can recall these two with equal vividness
- ii. I can ~~perfectly~~ recall the sound of rain, ~~not~~ the clink of tea, things, but I can mentally hear the fall of an ash, or the scraping up of ashes from the grate.
- iii. The smell of tea, roses, candle blown out, not violets at this moment, but cowslips, & tobacco.
- iv. The taste of salt, not of lemon, currant jelly or chocolate.
- v. The touch of velvet, not of silk, the stickiness of gum, not sand, or the prick of a pin.
- vi. I cannot image any of these last in themselves
I can only recall the kind of suffering consequent on them, and even this not at all vividly.

9

The power of mentally recalling objects outside ourselves increases with advancing years, I think. Children in describing what they saw would have noticed more minutely ^{have} but taken less of the general effect of a landscape: they would mention poppies in a field but they would not have noticed whether there were hills beyond the field. The power of mental imagery is certainly increased by cultivation - the first time I try to recall a friend's face I can do only partially it is not clear or vivid, but if I dwell on it it seems to become real & just as I have seen it. At first it is flat to me but it becomes rounded, & stands out ^{more} from its' mental tachyon, the longer I mentally look at it.

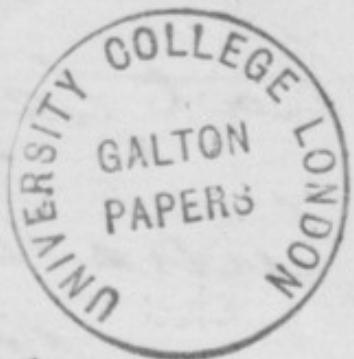
Frances Mary Owen.



F.I

Miss Lewis's School

~~Answered Miss Lewis £2.
52 Portland Road
Hobbing Hill W.~~



~~Hobbing Hill W.~~

Feb. 18. 1880

Sir

I have been interested
by your paper ~
'Visualised numbers'
in an "ent Nature"
& ventured to ask you
to send me a
copy of the printed

Greetings to wh. you
refer in that paper.
I may perhaps
be able to collect
answers, from my
position as teacher
in a large girls'
school.

I remain

Faithfully yours

Sophie De-Lewis



Miss Lewis
52 Putney Road
London S.W.

6.3r

Feb. 24,

Dear Sir

Please accept my thanks
for your memoir, quædā,
& courteous ~~etc~~ information
about your lecture on
March 9th-10th. I hope
to be able to hear.

If the fact that the
collection of answers from

my pupils & friends with
take some time - 3
months perhaps - without
under the answers unless
I can get a considerable
number. May I venture
to ask you to send me for
this purpose ~~or~~ a few
more copies of your questions?
I shall endeavor to
leave independent answers.
My idea is to give a class
on questions at a time -

the whole paper would
only bewilder them - & to
repeat the same question a
fortnight later without
mentioning the contemplation
of the repetition beforehand.
I am afraid it will be
impossible to prevent their
discussing the question among
themselves. I find the
girls whom you range from
12 to 20 show much
interest in the question.
I am very self-satisfied
for a suggestion wh. by

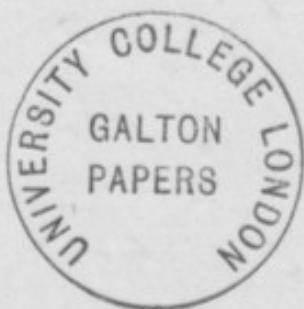
f.4v

shewing me something of
the operation often mind
may make the work of
teaching more effectual.

I remain

Faithfully yours

S. H. Lewis (Miss)





Miss Lewis f.s.
52 Portland Road
Huntington
March 2.

Dear Sir

I forward by you
the answers wh. I have
received from some of
the pupils of Hunting-
ton High School on
two questions wh. were
given to them. On
extent of field of view,

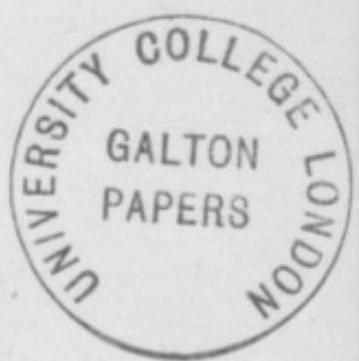
& a funeral &
dates.

It is plain that
some of the younger
ones did not understand
the questions, but
I thought it better
to end on the paper
exactly as they came
into my hand.

Very faithfully yours
S. H. Lewis

f.6

There has been no
time to speak the
question.



62 Rathbone Lane To Miss F. F.
C. W. B. March 3 / 80 Lewis

Dear Madam

I am extremely obliged
to the ³³ papers that you have sent
me. They are full of character
& will be very useful to me statistically
as well. I have read them
carefully 3 or 4 times over.

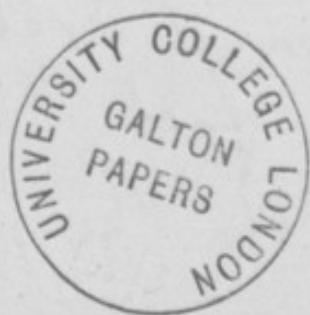
It appears that 3 (Adams Brown
Shrigg) see numerals in forms
that 1 (Sichel) has the somewhat
rare peculiarity of seeing whatever the
hears said, in a printed form.

The large proportion who say that
they can see mentally more than is
visible objectively & once is curious
& I cannot doubt but that it is
based on fact. It is very pleasing
& remark the pains taken by most

f.7.
of the girls (e.g. Miss Ada Toddall) to be accurate rather than sensational Miss E. Richmond ^{Henry} seems to have considerable ~~less~~ gifts for mental calculation at the like. It would be worth testing her powers - Miss

B. P. Clay is ~~most~~ amazingly definite & precise & Miss Barkell ^{domestic} The colour apportionment of Misses Burkitt, Siderot, Stiebel & Watson are all noteworthy I am much struck by the almost universality with which the girls see the numbers in a printed or written form

ff



(Mr. Lewis' School)

f.8

Questions _____ Kathleen Burkitt _____

Feb. 27th, 1880.

1. I can mentally see at the same moment the four walls of a room, & all the objects in it. I can also mentally see the inside & outside of my workbox at the same time. I can also see mentally "four" sides of a die, at the same time, also North America, Europe, Asia & Australia at the same time.
2. The date of the 18th of November is associated in my mind with the colour green, & the image of a ship, as on that day I left Australia in a sailing-vessel, & I had a bunch of choice green grass in my hands, saw the green tops of the headlands gradually fading away, & the green waves of the ocean, & the green colour of the saloon cushions.

6 f.9

Color &
apocynum

February 28th 1880.

Questions.

Rosie Siebel. Age 14.

I

- a. Call up the image of some panoramic view (the walls of your room might suffice). Can you force yourself to see mentally a wider range of it than could be taken in by a single glance of the eyes?
- a. Yes, I can see the whole of the room, the four walls, & every object, or piece of furniture within them.
- b. Can you see mentally more than three faces of a die.
- b. No, I cannot.
- c. Can you see mentally more than one hemisphere of a globe at the same instant?
- c. Yes, I can see down all sides at once, in my imagination; but I cannot see the extreme South point.

II

- a. Are numbers & dates invariably associated in your mind with any peculiar mental picture of inappropriate figures, diagrams or colours. If so explain fully & say if you can account for the association.
- a. In working any mental arithmetic, I always see the whole sum written before my mind's eye, in simple Arabic figures, just as I should work it on paper. Dates usually remind me of the events with which they are associated; I once had a peculiar dislike to the number "5" as it reminded me of something disagreeable, whenever I saw it.

Filler

Helena M. Siette

1. Are numbers & dates invariably associated in your mind with any peculiar mental imagery whether of written or printed figures, diagrams or colours, if so, explain fully & say if you can account for the association.

Most certainly they are with printed figures & very often with figures in the abstract. Very often the shape of the figures as they stand suggests some picture or simile by which they may be remembered. And when I hear a date I immediately call up the shape of the figures contained in it. I can only account for this association by the fact that I have always seen that date represented by those figures.

2. Call up the image of some panoramic view, such as the wall of a room; can you free yourself to see, mentally, a wider range of it than could be taken in by a single glance of the eye.

Yes. If the wall of my room is too long to be taken in at one glance, still, when I think of it, I always seem to see it all however long it may be, because I can fancy myself far enough

If to see it all.

3. Can you mentally see more than three faces of a cube or one hemisphere of a globe at a time.

No. Because I have never seen more in reality.

Helena M. Sickert

15 $\frac{1}{2}$ years old



Name. *Erika Frances Watson.*
 Age. *Fourteen last July.*

1. I can see all the sides of a room at once in my mind.
 I can see the inside, outside, & contents of a desk or box
 at the same time in my own mind.
 I cannot see more than ³ one face of a die, or one hemisphere
 of a globe at the same time.
-
2. The date 1215, as connected with the signing of Magna
 Charter, is always associated in my mind with a very
 sunny & rather breezy summer's day. I cannot account
 for the association.
- X The numeral 1 is always associated in my mind with a
 soldier, I suppose, on account of its upright look.
 The figure 3 is associated always with a pattern of threes, each

row increasing one thus $\begin{smallmatrix} 3 \\ 3 \\ 3 \end{smallmatrix}$. I suppose it is because when I was very little $\begin{smallmatrix} 3 \\ 3 \\ 3 \\ 3 \end{smallmatrix}$ indeed, I was set to copy a pattern of threes like that, & having made them turn the wrong way, was made to do it over again. I had made them thus $\begin{smallmatrix} 3 \\ 3 \\ 3 \end{smallmatrix}$. At any rate that so impressed it on my memory $\begin{smallmatrix} 3 \\ 3 \\ 3 \end{smallmatrix}$ e. g. that when 3 is mentioned, or I see the figure 3 the pattern is always recalled.

The figure 4. is associated with in my mind with a wooden stile between 2 paddocks.

The figure 9 is associated in my mind with the colour of yellow.



1. Are numbers, dates, letters, whether written or printed, associated in your mind with any peculiar mental imagery, whether of form or colour. If so explain fully, & say whether you can account for the association. Numbers, figures, & letters always seem to me each to possess peculiar characteristics; they each have their own meaning & character. For instance 20 is very different from 29. T more closely resembles H in character than S. I imagine this is because a straight form suggests a Reid of character quite different to a curved form, therefore letters which have more in common in outward symmetry, will naturally have more in common in character. H & T both seem rather uninteresting letters to me, while S is a very amiable & interesting letter. Z is rather a marvellous letter, & is rather puzzled & worried about things in general. Form of course is always to some extent, illustrative of

Character & thus with diversity of form,
you naturally imagine diversity of character.

2. Can you force yourself to see mentally more
of any panorama's view than you can see
really? Can you see more than 9 sides of
a die, or 2 hemispheres of the world?
Yes. Mentally I can see quite round a
room, ~~but~~ & sometimes also floor & ceiling,
while of course really only a certain portion
would be visible. I imagine the reason
of this to be that when each portion of the
panorama has become thoroughly photographed
on the mind, the imagination, or brain,
(or both perhaps) has a power of linking all
together & mentally seeing it at once.
While the eye can only see what comes
within its range. I suppose this must
show that imagination has greater power
& more completeness of power than the sight.

I can see more than 3 sides of a die at a
time, but to do so, I fancy ~~may~~ I go through
some process of concentrating my ideas of
a die into a form of which more sides are visible
to me, then if I saw a die - I fancy this
may arise from the fact that you can
deconcentrate your mental sight to see all
sides at once, in a way in which you
cannot treat your real sight.

Choice Webster 16

Upper I

Mabel Haynes.

Age = 15.

Question I

1. Are numbers and dates invariably associated in your mind with any special mental imagery whether of written or printed figures, diagram or colors? — If so explain fully and say if you can account for the association. Most figures, ^{of numbers or dates} are invariably associated with certain colours in my mind but I can in no way account for the association; the figure 6 for instance is always associated with the colour yellow and ^{some} other figures & dates present other colours.
I do not know that any numbers and dates are associated with any imagery of diagram or written or printed figures.
2. Call up the image of some panoramic view such as the walls of your bedroom — Can you force yourself to see mentally a wider range of it than could be taken in by a single glance of the eye?
Yes - I can mentally see all the four walls at a glance, while with a glance of the eye I could only see two.
3. Can you mentally see more than three faces of a die or one hemisphere of a globe at the same instant of time?

No, I cannot imagine more than one hemisphere of
a globe or three sides of a die at the same instant.

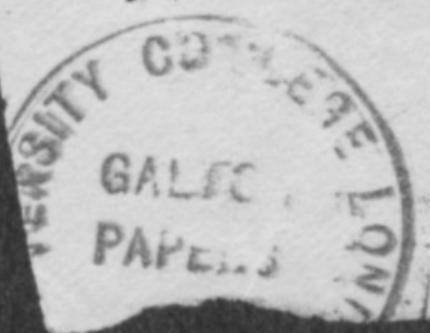
I intend



^{F. 16}
Numerical
forms

4)

See Sichelberg
(or Mr. Strader)
(for next lesson)



Mrs Lewis' School

1.17

Examination

M. M. Adamson

15-2

I The numbers appear to me mentally in a long line of written figures, those which appear directly in front of me being from about 12 to 16.

In this long line of figures certain numbers seem to stand higher than the others, forming landmarks or barriers; i.e., 12, 22, 24, & after that each tenth number (20, 30, etc.) are among these. 100 stands up particularly high & is a great distance to the right. Numbers above 100 seem quite in the far distance. ~~stands rather to the left~~. This line begins to the left goes from left to right.

* 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

II I can mentally see the whole of a room, with all it contains at the same instant mentally; but I cannot mentally see four sides of a cube.

In the case of a cube or a sphere, I can mentally see the whole ~~in~~ of the sides of the one, or both hemispheres of the other, in such quick succession ~~taking~~ that it almost appears as if the whole were seen at the same instant of time, which is not the case.

* 12-16. this being the part of the line ~~most~~ ^{anxiously} opposite the most clearly seen; & apparently directly opposite the eye.

Harriet Brown
Aged 20

IV Extent of the field of view

Calling up the image of a room with which I am well acquainted, I can see more of it than could be taken in by a single glance. I can see the ceiling, floor & window, in fact all of it at the same instant.

I can see four faces of a die distinctly, and the whole of a globe, but a very small portion when it appears to one to be resting against something, although I may attempt to imagine it suspended in space -

Figures & dates

I Figures always appear to me to stretch in one long continued string in a sloping direction

12⁵⁴5⁶⁷8^{9¹⁰11}

ad infinitum; or figure taking a more prominent position than another. If I think of any fixed date or number, I see it in red, roughly made written figures. I ought perhaps to mention that I have considerable difficulty in remembering dates, although I can do a moderate amount of multiplication & division of figures mentally without much trouble.

Questions on the Power of Imagination. By Siehl.

- I. Set up the image of some panoramic view (the walls of your room might suffice); can you free yourself to see mentally a wider range than can be taken in by any single glance of the eye? Can you mentally see more than three faces of a die or more than one hemisphere of a globe at the same time? Can you mentally see the inside and outside of a workbox or desk at the same moment?

When I am in my room I can see the whole of one wall, and about half of the two opposite walls (i.e. if I stand directly facing one wall), but yet I know what that part of the room, behind me, looks like ^{at the same time} as well as if I were actually facing it. I can imagine what every part of the room looks like, ^{at the same moment} I know the position of every article in it, and yet I am not in the room.

I can not see more than three faces of a die at the same moment. I know what the other three faces are like, but yet I can not imagine all six faces at the same moment. ~~I either see~~ ^{I can} see more than one hemisphere of a globe at the same time, although I can not imagine the whole of that globe at one moment. I can see mentally the inside and outside of a desk or workbox at the same moment.

- II. Are numbers and dates invariably associated in your mind, with any peculiar mental imagery; whether written or printed figures, diagrams, or colours? If so, explain fully what you see, and say if you can account for the association?

When I hear a figure mentioned I generally think of the figure first as expressed by an arithmetical sign, and then I think of it as printed. Dates, I see mentally, as expressed by figures, and not by printed letters.

If I heard such a number mentioned as twelve millions, I should at once think of the twelve as expressed by figures, and the millions as a printed word.

I can not account for the association at all, for whenever I hear anything said, I always think of the words, as being printed, and I think of figures in a similar manner.

Lily Spragg.

Age 16.

4.

Extent of field of view.

In calling up some view, I can see mentally, a wider range of it than I could take in by one glance.

Mentally, I can see more than three faces of a die and more than one hemisphere of a globe at the same instant of time.

10.

Numerals and Dates.

In thinking of numbers, they seem to be arranged from 1 to 100, in a straight line, the tens being a little taller than the rest, in this fashion

1 1 1; after 100 I do not see numbers in any particular form, they look just as they would if written upon paper.

I cannot account for this association.

Page 2.

Lily Shroog (continued)

10. In thinking of a date it seems to be written on the lower part of the left hand page of a book.
This may be because I learnt the dates of the sovereigns of England from the left-hand page of a book.

(With school)

31st number former
observation

Elizabeth Richmond. Aged 17.

II. Extent of field of view.

I find a great deal of difference between my the actual and the mental extent of my field of view.

As I am now sitting I can see two walls, and part of the third, of my room.

But if I shut my eyes & look at the room mentally, I can see not only the four walls but the whole of the room complete.

I can see all the sides of a die in a mental glance, although of course not more than three with an actual glance.

Also, in an instant I can see the whole of a hemisphere. Without an effort I can see Europe, Asia, Africa America, & both poles with one glance of the mind and at the same instant of time.

X. Numerals and dates.

Numerals are not connected with any imagery in my mind.

In making mental calculations, I see the figures as they would actually appear if worked on paper in written not printed letters.

Dates are always associated in my mind with the page of the book from which I learnt them. When I think of a

ever

✓
see over

date I immediately think of the page, &
even the very place on the page from
which I learnt it.

X In calculating I actually put down
in my mind the figures & work them
as if I were working on a piece of
paper.



Ada Firdale.
Agt. 12. 5. 23

Extent of Field of View.

✓ No. At first I thought I could see the whole of an object, but I really only did so by uniting all the details, which memory supplied, into an imaginary picture of the object; & this was done so rapidly that for some time I was not aware that there was any other process than that of visual imagination.

In calling up a hemisphere the two sides at first seemed clearly visible, but it was really only after I had followed the lines round in my mind.

✓ In imagining a die I never thought I could see more than three sides; the sharply defined lines seemed to prevent me from seeing the fourth, without using some other effort of the mind of which I was always clearly conscious.

Names and Dates.

✓ No. But sometimes the position in order of a succession of dates enables me to remember them, & call them up.

Emma Falcon

Age 14

- I ball up the image of some panoramic view, [the walls of your room might suffice], can you force yourself to see mentally a wider range of it than could be taken in by any single glance of the eyes? Can you mentally see the inside and outside of your desk or workbox, or more than three faces of a die, or more than one hemisphere of a globe at the same time?

- 3
1. Thinking of a room I can see all four walls at once.
 2. I can see inside and outside of my desk at the same time.
 3. I can only see three faces of a die.
 4. I cannot see more than one hemisphere of a globe.

- II Are numerals and dates invariably associated in your mind with any peculiar mental imagery, whether of written or printed figures or colours? If so, explain fully and say if you can account for the association.

When I work a sum in my head, I always see the figures written in my own handwriting, and sometimes when I think of a figures I see it printed, in blue or white generally, but sometimes in red or green.

Elinor Wallich Age. 17 years

IV

Extent of Field of view. I can force myself to see mentally a much larger range of a room, than I could take in at a single glance of my eye. When I take a glance, my eye fixes itself on some particular object, & the objects near to that one, I only take in, in relation to it. But calling up the room mentally, I take in the room, as it stands without fixing on one part of it, & thus get a much larger range of it. I cannot, either force myself to see more than three sides of a die, or more than one hemisphere of a globe, at the same instant of time.

X

Numeral & Dates. I think I almost invariably associate dates & numerals in my mind, with some kind of imagery. Numerals I generally associate either with written figures, or with diagrams. I associate them with figures because Harry always been accustomed to represent (say) three by the sign 3, the number & the sign have become connected.

over

Dates I generally associate with mental pictures of the events they record. For instance 1815 I associate with a mental diagram of the Battle of Waterloo. I have mentally a picture of the various positions of the armies etc., & thus I connect the date 1815 with that battle, it having taken place then in that year.

March 1st 1880



Question Call up the image of some panoramic view (the walls of your room might suffice).

I Can you force yourself to see mentally a wider range of it than could be taken in by any single glance of the eyes?

Answer I can mentally see the whole of my room, with all the furniture in it, by a single mental glance of the eyes.

But, in actually looking at it, I only see one wall & part of the two other walls.

Question Can you mentally see more than three sides of a die, or more than one hemisphere of a globe at the same instant of time?

II
Answer I cannot see mentally more than three sides of a die, or one hemisphere of a globe, but only three sides.

Question Are numerals & dates invariably associated in your mind with any peculiar mental imagery whether written or printed figures diagrams or colours? if so explain fully, and say if you can account for the association.

III
Answer All numerals & dates are not associated with any peculiar mental imagery ^{in my mind} for instance whenever I write or see printed the figure 8, I invariably think of a school to which I formerly went; I can at once see the whole schoolroom before me mentally, with the teachers & scholars. I cannot account for this in any way, unless it were, because we had very many arithmetical lessons, but I do not remember anything ^{particular} having happened with regard to the figure eight.

With regard to dates & other numerals, I do not mentally witness any particular scene or event

or do I think of any thing else than I look
at any particular figure or figures

Rebecca Isabel Killow.

Age. Fifteen years, 2 months.

Date. March 1st 1880.



April 21.

Emily A. Horton.

Extent of field of view.

Mentally I can at one glance see the whole of my room, in the drawers and behind the door. Sometimes I see it all more clearly than at others. I cannot see the whole of a globe, only about two thirds.

Numerals and dates.

I see all figures in my own writing, and of a neutral tint in space. They appear very near my eyes, and as a rule vanish very quickly.

March 1st 1880.

Notting Hill High School Lilia Walter

Extent of field review. Age, 18 years.

IV I can see mentally a wider range than can be taken in in a single glance of the eye; for instance, I can see this room, & also the gardens & houses beyond mentally.

I can see all the faces of a die at the same time, but not more than one hemisphere mentally.

V

Numerals & Dates

✓

Numerals always call up to my mind printed figures, such as XX, II, because I learnt them in that form.

Some dates, such as those of the sovereigns of England, are also associated in my mind with printed figures, for the same reason. Others, such as the days of the month, & years are associated with written figures, because I write them often.

Age, 18.

f.29

Mary Cheppel

4

Extent of field of view.

Mentally I can see all the walls of my room at the same time, the outside of the cupboards & their contents, above & under the bed, I can also see at the same time.

I can mentally see 5 faces of a die, & one hemisphere & the greater part of the other, the only part which I cannot take in one glance of the eye, is that which is directly turned away from me.

10

Numerals & Dates

Numerals & dates, I always picture mentally myself on a white ground, written as if on paper.

March 2nd 1880.

Maine Isabel Mason.

aged 17

Extent of field of view.

I see mentally
a greater expanse than I could catch
in one single glance, for example I
can see the whole of a room behind the
door & into the cupboard in one moment
I can see the whole of a cube, & three
quarters of a ~~burr~~ globe.

10. Numerals & dates I see figures & dates
just as I would see them on paper
The figures are large & written in
white on black.

Rose Geraldine Cumberbatch.

Age 18.

Extent of field of view. I can see mentally a wider range than can be taken in by a single glance. I can see the whole of my room, & inside the cupboards.

I can only see three faces of a die.

I can only see three-quarters of a globe.

Numerals & dates. I can see figures as if they were printed. They appear black in a sort of grey haze.

Practical QuestionsUpper Fifth FormM. Elsie Marshall
Aged 16

1. Are numbers & dates invariably associated in your mind with any peculiar mental imagery, whether of written or printed figures, diagrams or colours. If so state what your imagery is & account for its association.

X

When I want to remember dates or figures, I generally try to associate them with the age of some person that I know. Or in dates of the month I associate them with someone's birthday; as it also makes them easier to remember.

2. Call up the image of some panoramic view, such as the walls of your own bedroom, can you face yourself to see mentally a wider range of it than could be taken in by the single glance of an eye.

If I call up the image of my own bedroom, I can face myself to see it larger than it is.

3. Can you see more than three faces of a cube & more than one hemisphere of a globe in one instant of time?

You cannot see more than three faces of a common cube, like the ones we draw as models, but if you could get inside it & stand in a corner you would be able to see more.

Also you can't see more than one hemisphere of a globe for one is turned from you.

Catherine Hew-Jones (14)

Notting Hill High School.

1. Ball up the image of some panoramic view (the walls of our room might suffice) Can you force yourself to see mentally a wider range of it than could be taken in with any single glance of the eye. Can you mentally see more than three faces of a die? or more than one hemisphere of a globe at the same time?

1. With regard to a room. I can see the whole of it when looking at one part.

A box. I can see the inside & the outside at once

3) A die. Can see the two hemispheres at once

Are numerals & dates invariably associated in your mind with any peculiar mental imagery, whether of written or printed figures, diagrams or patterns or colours.

If so explain fully what it is that you see? & explain fully the association?

✓ When I naturally think of figures, they always appear to me of a black colour & written but of no particular shape

Sissie Nast

Questions

Age $14\frac{1}{2}$ yrs

I X

I can see more of certain things mentally than I can with a single glance of the eye.

I can mentally see the whole of a room & almost every article of furniture in it.

I can mentally see at the same instant of time both the inside & outside of a box.

I can neither see more than one hemisphere of a globe nor three faces of a die.

II

Dumerals & dates do not remind me of any peculiar mental imagery.

Answers to Questions

-
- 1 I can see more of a room, mentally, than I could with a single glance of the eye.
I can see, mentally, more than one hemisphere, but not the whole of two.
I cannot see three faces of a die mentally.
-
- 2 I cannot connect date or numerals with any mental imagery.

Sigrud. Bratton. Elizabeth Clay.

I shall be fifteen on the 24th March.

March 1st 1880.

Charlotte Watson,
Age = 18.

* Extent of field of view.

When I try to see a wider range of a room, it entirely loses all its proportions.

At the same moment I cannot see more than three faces of a die as the other sides appear quite distorted, & the other hemisphere of a globe seems perfectly flat.

10. Numerals & dates.

Numerals are most decidedly not associated with any mental imagination whatever.

Dates I can remember by the position in which they occur on a page

Miscellaneous QuestionsAge 14.Jessie Joseph

Taking a room as an example, I can mentally see the whole of it with all that is inside, whereas just glancing at it once with my eyes I can only see three sides & not every thing inside.

~~But when thinking of a globe I can only see mentally three sides, that is every side but the back; looking at it I can see three sides.~~

Looking at a die I can mentally see four faces & looking at a globe I can mentally see but one hemisphere.

Numerals & dates are always associated in my mind with written (or sometimes printed) figures of a black colour esp. generally with some event. Appearing as figures to me, they are diagrams.

I can very well account for these associations. Having always seen numerals & dates written as figures in black belonging to some events, I can not disconnect them in my mind from these associations.

March 1st 179

Georgina Wishart

Age. 14.

Call up the image of some panoramic view the walls of your room might suffice. Can you force yourself to see mentally a wider range of it than could be taken in by any single glance of the eyes? Can you mentally see more than three faces of a die, or more than half one hemisphere of a globe in an instant of time?

1st A Room. In one moment I can imagine the four walls of a room with its contents

2nd A Die. I can see all the sides of a die at once.

3rd A Globe. I can only see one hemisphere of a globe.

Are numerals & dates invariably associated in your mind with an peculiar mental imagery, whether of written or printed figures, diagrams or colours? If so explain what you see & say if you

can account for the association.

Immediately I think of a numeral or date. I see the figures written; but I see no definite colour.

I see the same characters as those which are used as figures, but can not account for the association.



Bertha Priestley
aged 13 years

f.395

Call up the image of some panoramic view, (the walls of your room might suffice), can you force yourself to see mentally a wider range of it than could be taken in by the single glance of the eyes? Can you mentally see more than three faces of a die, or more than one hemisphere of a globe at the same instant of time?

a room

a box

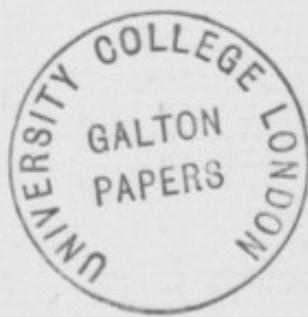
a globe

a die

I can see mentally the whole of a room, with all the objects in it

On looking at a box, mentally, I cannot see the outside & inside at the same time.

I can see mentally the whole of a globe at one time.



F.40.

Isabel Priestley

Aged 15 yrs:

Pull up the image of some panoramic view (the walls of your room might suffice)

Can you force yourself to see mentally a wider range of it than could be taken in by the single glance of the eyes?

Can you mentally see more than three faces of a die, or more than one hemisphere of a globe at the same instant of time?

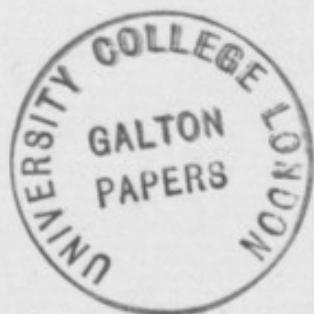
A room - A nose - A globe - A die

I can see mentally the whole of my room & all the objects it contains.

I can see mentally both the inside & outside at the same time.

I can see mentally the whole of a globe at one time.

I can see mentally all the sides & backs of a die at the same time.



Florence S. Way. Aged 17 years

IV. Extent of Field View.

I cannot force myself to see a wider range of view than can be taken in at a glance.

Yes, I can see more than 3 faces of a die, & one hemisphere of a globe.

XX. Figures & Dates.

I always associate numbers & dates in my mind with their position in a page either of written or printed figures.

Extent of Field view age 14. Mary Muir
in calling up the
image of some panoramic view I can
not force myself to see mentally a
wider range of it than could be taken
in from any single glance of the eyes.
And I cannot mentally see more than
three faces of a die or more than one
hemisphere of a globe at the same
instant of time
Numerals & Dates

Numerals & Dates are
associated in my mind with written
or printed figures.

March 1st 1880

Fanny Valentine Howard
(aged 21.)

4. Extent of field of view.-

I can force myself to see mentally a wider range of panoramic view than one glance of the eye will take in. — I cannot see mentally more than the face of a die, or more than one hemisphere of a globe, at the same instant of time. —

10. Numerals and Letters.-

In recollecting numerals and letters, I mentally associate them only with their written symbols.

Dr. A. Mair

Extent of field view

Age 17.

I cannot force myself to see a wider range than could be taken in by a single glance. I cannot see more than three sides of a die or more than one hemisphere of a globe in one instant of time.

Numerals & dates

These are always associated in my mind with printed or written figures but not with any other mental imagery unless I intentionally do so for the sake of memory.

No 4.

Extent of field of view.

In calling up any panoramic view, as for instance the walls of a room, I can see mentally a wider range of it than can be taken in by a single glance of the eyes.

I can also see mentally more than three faces of a die, & more than one hemisphere of a globe at the same instant of time.

No 10.

Numerals and dates.

These are invariably associated in my mind with the oriental imagery of printed figures impressed on the books from which I have learnt them. I can also generally tell if a date is right/wr. by sound.

In a glace.

edged 17.

Question I

February 28th 1880

Call up the image of some panoramic view, (the walls of your room would suffice) - can you force yourself to see mentally a wider range than could be taken in by a single glance of the eye? Can you see mentally more than three faces of a die, or more than one hemisphere of a globe at the same time?

Answer I

- a) I can force myself to see mentally the four walls of my room at the same time, but not if I am standing in it.
- b) I can force myself to see the inside & out of a box (mentally, & at the same instant of time).
- c) I cannot see mentally more than one hemisphere of a globe at the same instant of time.
- d) I cannot see mentally more than three sides of a die at the same instant of time.

Question 2. Are numerals & dates invariably associated in your mind with any peculiar imagery, with written or printed figures, or diagrams or colours? If so explain as fully as you can, acco & say if you can account for the association.

Answer 2. Numerals & dates are always associated in my mind with the written f numbers,- one, two, three, etc.

I cannot acco account for this association.



Alice M. Heusley.

f.47r

Age. 18 years.

4. Extent of field of view

I can force myself to see mentally all the walls of my room at the same time as well as all the things in it.

I can also see mentally certainly 4 faces of a die if not all, in the same instant of time; and can easily see the two hemispheres of a globe mentally in the same instant.

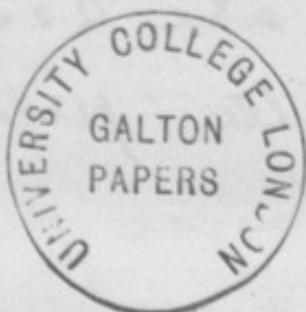
10. Numerals and Dates

These certainly are associated in my mind with printed figures for instance in mental Arithmetic the numbers to be dealt with appear to me

f.47v

to be written down, and
the same with dates.

It appears to me that the reason
of this is that my eyes have
become so accustomed to seeing
the numbers written on paper
that I cannot think of them
apart from it. In the same
way if I learn anything,
be it tables of dates or
anything else by heart,
I remember it simply by
mentally seeing those tables
written down before me
as if they were really there.



1. Numbers and dates. I remember dates generally as printed on the page of the book in which I have read them. Numbers present themselves to me in a printed form, and are not connected with any diagrams or colours.
2. Mental Vision. In calling up the image of a panoramic view, I can see more than could be taken in by a single glance of the eye. I can see ^{mentally} four walls of a room, more than three faces of a die, & the two hemispheres of a globe at once.

Bessie Lander.

Age 16.

Emily Williams
Age 14

f.49

1st: As regards a room; I can see more in my mind's eye than could be taken in at a single glance.

2nd: As regards a box; I can mentally see both inside & outside.

3rd: As regards a globe; I cannot see more than one hemisphere at a time

4th: As regards a die; I can only see three sides at once

Figures & dates are always associated in my mind with the form in which I first learnt them. Thus, - if I was asked to the event which happened on a certain date, I should immediately think of

f.50

the figures as I last saw them print
ed in a book. Why I cannot say.

Edward ell. Daniel.

Age 15.

I can call up the image of the whole of a room, walls, ceiling & floor, but whether it is an ^{really} instantaneous picture or rather an exceedingly rapid succession of pictures I am not sure. I think it is the latter.
I cannot see either more than ^{three} sides of a cube or 1 side hemisphere of a globe at once.

numbers and dates are not in my mind connected with any imagery of written, or printed figures, diagrams and colors. But I think that in the case of some dates, the events which make them famous, would present themselves to my mind in connection with the date. For instance, if I were reading about anything that happened in 1066, I should immediately be reminded of the Norman Conquest.

Gladwin F. Hyde
F.52
— — — — —
17 — —

Are numbers & dates invariably associated in your mind with any peculiar mental imagery, whether of written or printed figures, diagrams or colours? If so explain fully & say if you can account for the association.

Not invariably, but numbers & dates which I have learnt from printed or written books, are usually associated in my mind with the written or printed characters from which I read them. This must be, I think, because the eye aids the memory, by remembering the position & appearance of the figures. I do not think that I ever associate dates & numbers, with colours or diagrams. Very often number occur to my mind, only as abstract ideas, without any especial association.

Call up the image of some panoramic view. Can you force yourself to see mentally a wider scope of it, than could be taken in by a single glance of the eyes. Can you mentally see more than 3 faces of a cube, or more than one hemisphere of the globe at the same time?

No. I cannot see a wider scope than I should naturally see by a single glance. I can only see mentally three faces of a cube, & only one hemisphere of the globe at the same time.

Lilias Macleod 15.

Upper I

I

Numbers and dates are not associated in my mind with, diagrams, colours or written figures, merely with the printed figures. e.g. If one mentioned the date 1296, these figures would immediately come first into mind; generally a small space occurs between the second and third, fourth and the fifth and so on. 1 2 9 6 4 2.

II

Yes; if it is a room, I call up, which I know well; and look at it in one glance; I can as if it were, take in the whole room.

III

I can see four, the two sides which meet like this =  1 & 2 and the top and bottom, which can not be given in a drawing.

F.Ir

Visualizing
Beliefs from
School & College.



3. Books with historical purposes and
for future compilation
in the library
should be added
to the library
and
books named in the genealogical table, provided that the MS. is contained
within the limits of a common copy-book.

It is believed that a large collection of personal
and family records such as these would furnish
important data which cannot now be discovered
for investigating the social and family
antecedents that are most favorable
to success in life and in death.
They will be the first
and earliest evidence of
the early life of under-
graduates, that may later become considerable
biographical interest to themselves or
their families.

Such records
as uniform by
convenience.

1. Name, place of birth,
2. Education in youth,
3. Testes, physique,
youth and after.
4. Illnesses and genera-
5. Hobbies, worth
6. Personal char-
acter & by
7. Marriage
Name of
- up as follows on
newspapers, for the
and comparison.
- courses after.
in boyhood,
age at death.
marriage
etc., as temperament, color,
weight etc.
from age, date of marriage
order of birth.

Questions on "Visualising"

1. f.2c

The object of these questions is to elicit the degree in which different persons possess the power of seeing images in their mind's eye, and of reviving past sensations.

Before answering, think of your breakfast-table as you sat down to it today, and then descri^u. the picture that rises before your mind's eye.

1. Brightness, is the image dim or clear? Is it as bright as the actual scene?
2. definition. Are all the objects well defined at the same time, or is any particular part most clearly seen?
3. Colouring. Are the colours of china, bread, etc. on the table, quite distinct and natural?
4. distance of images. Where do mental images seem to be situated? In the head, or just in front of eyes, or as in reality? Can you project an image on a piece of paper?
5. Command over images. Can you keep a mental picture steadily before your eyes? When you do so does it become brighter or dimmer? When the act of keeping it becomes wearisome, in what part of the head is the fatigue felt?
6. Persons. Can you recall with distinctness the features of all near relations and many others?
7. Scenery. Can you recall scenery with precision of detail? Can you easily form mental pictures from the descriptions of scenery in novels or books of travel?

8. Comparison with reality - what difference do you see between a vivid mental picture called up in the mind, and a real scene? Have you ever mistaken a mental image for a reality, when awake & in health?

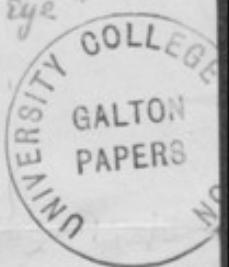
9. Numbers. When you think of numerals or dates are they always associated in your mind with written or printed figures, patterns, or colours? If so, explain fully, and say if you can account for the association.

10. How do you perform any process of mental arithmetic? Describe the mental picture you would make (for instance) in doing a multiplication sum in your head.

11. In saying lines by heart, do you use any mental picture of the words to help you in remembering them?

12. Music. Have you any power of mentally recalling music, or imagining it?

13. Do you remember any instances of a power of making any kind of pictures "in the mind's eye" when you were younger?



N.B. Please write answers to any of the above questions [especially nos. 1, 2, 3, 9, 10, 13.] if you are able, and send them in to me with your name as soon as possible.

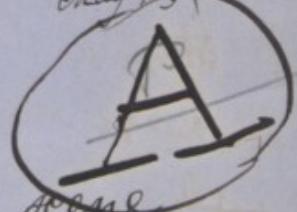
A. S. Hill.

April 29th 1880.

A

H. W. Pyddoke.

May 3, 1880 C. 3r



1. The image is clear.

It is not as bright as the actual scene.

2. All the objects are well defined at the same time.

3. The colours are distinct and natural except blue.

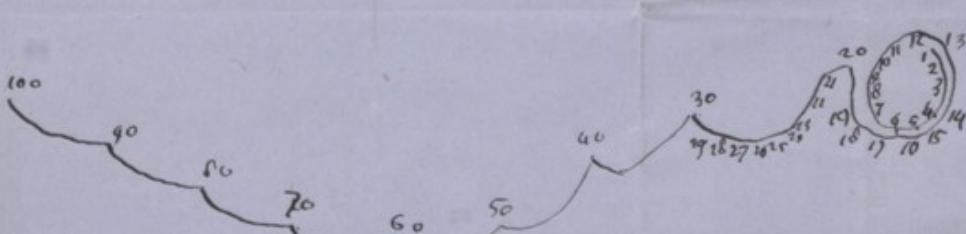
4. Mental images seem to be situated 3 or 4 feet straight in front of the eye.

I cannot project an image on a piece of paper.

5. I cannot recall the features of any relations with distinctness.

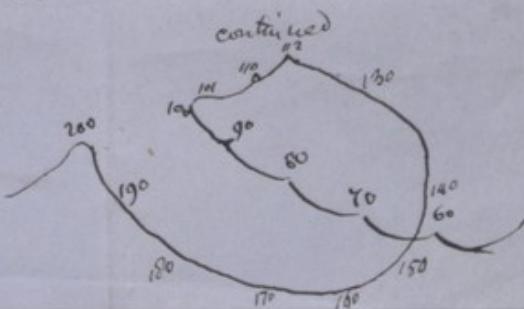
7. No

9. Numbers except the first twenty appear in waves



The two crossing lines 60-70, 140-150 never appear at the same time

The first twelve seem to be are the image of a clock and 13-20 a continuation of them.



f.3v

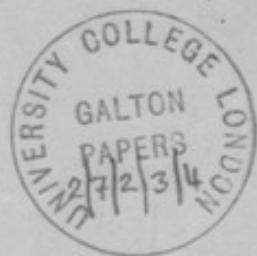
if thinking of dates ~~between~~ in any century, they seem in
are large curve, with the earlier dates on my left.

- ~~with~~
10. I think of the numbers as they are usually printed generally multiplying ^{first} by the ten digit. I cannot multiply ^{by} more than two digits, not always three.
11. Sometimes, not always, the image of the printed words
12. I can remember ~~tones~~ hymns or songs, but the first note & last few notes are generaler, indistinct.

==



J. A. Battler



Visualising

1. I think of the dinner to day
2.

Show particular things that I noticed & can still remember. & they of course appear the brightest & clearest in the picture, & the most clearly defined.

I hardly see a regular picture, but as I see things separately just as I choose to think of them.

I cannot shut my eyes, and see the dinner-table before me, but I do it all by a mental process, 1st I think of the thing

2^d of its attributes

3rd I fashion the picture in my mind

+ then see it, as it were, with my eyes.

3. The colours are natural. But I can make any colour appear that I choose; it is a mere question of memory.

4. I cannot see the image distinctly without closing my eyes, for other things intervene.

5. I cannot keep the picture steady, or long in my eyes - I am unable therefore to say where it appears,

3

that it has assumed a different appearance.

This is, or used to be so strong, that I noticed it when only 6 years old -

I very easily form mental pictures of scenery & persons etc from descriptions, but better still when very little description is given.

& I feel much put out if the illustrations when I see them do not agree with my own idea.

9. Numbers are associated in my mind with nothing else than numbers. i.e. one = 1. two = 2 & so on.

10. I do it all mentally; & make no picture in my head.

It however, helps me very slightly, if I pretend to make the figure on a piece of paper.

But do not confuse this with my power of seeing images. I associate only the necessary motion of the hand, in making the figure.

1	2	3	4	5	6	7	8	9	10
D D T O									
I T C D									
<u>— — — — —</u>									

or to say how soon it gets bright or dim -

I get most tired in the muscle with which close my eyelids : merely because I close them tight to enable me to concentrate my thoughts in my eyes.

6. It is much easier for me to see the features of persons, and I recollect them well in my head but could not possibly write down the minor details of a person's face.

I can remember expressions of countenance, & imitate them in my own face.

7. If I have once seen a scene, I remember its general appearance extremely well.

But not the details ; unless I particularly notice them. Thus for instance if I make a sketch, I can reproduce that sketch very fairly -

It is an odd fact, which I have often noticed that if I have been to a place once, & come to it again, especially to stay there, I find

I can illustrate this better with my writing
 of words - if I spell a word wrong unconsciously
 by e.g. their for there; I never fail to dot
 the ~~e~~ - i - and often if I write an e like
 e.g. guin - (green) I should certainly dot it.
 Since I have been learning German, I often
 spell substantives with a Capital.

II. often, as for instance in doing Latin Verses,
 if I want to remember a Virgilian phrase
 I shut my eyes & try & remember how it looks
 in the book.

So this morning when I wanted to remember
 the quantity of a syllable. I tried to see the
 words that come before & after it in the line
 so as to scan it.

In learning Grammar, or History, if I want
 to remember under what Head a thing comes
 I associate it with its place on the page -
 so I say "now if it put this at the top of the
 page, it must have come under such & such
 a Head"

12. never before the last few days have I had
music in my dreams - but I was so struck with
it when I heard it, that I immediately
woke up & tried to remember it, but failed.
I have a very bad ear for music, & with the
greatest difficulty can sing a tune, unless
in company with others -
But I can answer 'yes' to your question.

13. I think so.

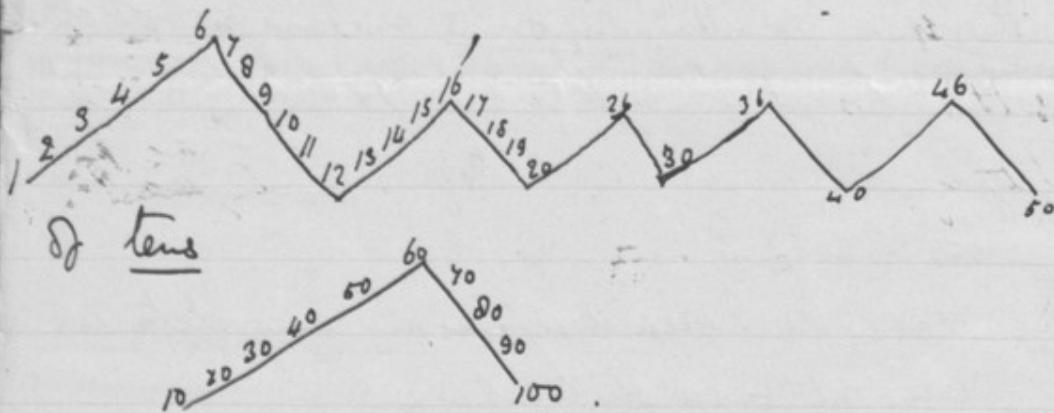


Visionising. Ernest Dg. Poole

1. Brightness. Clear, but not so bright as the actual scene.
2. Definition The part of the table, the picture on the wall, and those who are sitting opposite me are most distinct.
3. Colours Yes.
4. Distance of images. As in reality.
5. Command over images. Yes. As I keep it before my eyes details come out more distinctly.
6. Persons. Yes.
7. Scenes Yes - Yes.
8. Comparison with reality. The mental picture is not so clear as the reality.
I often imagine I hear things which really do not happen -
9. Numbers. Dates occur to me as I have seen them written, those in History often have brackets round them as they denote where I have learnt them.

P.T.O

In thinking of units I think of the thus



The highest point this is the 6th for the lowest in each case except where 11 & 12 are below 10 instead of beginning the ~~descent~~ descent - I cannot account for it



10. I write it down on a piece of paper in my mind.
 11. The part of the page words occur on some times helps me -
 12. Music. Yes
 13. I have often, if I was going to a place I had never been to before, settled exactly what it would be like in my mind, although in reality it was quite different.
-



Eddy Poole

C. A. V.

1. ~~Closed~~ At times clear, at times not. Not usually.
2. No, separate ~~is~~ objects are clearer. I can hardly recall the whole history mid-at once.
3. Yes.
4. As in reality. No.
5. Yes. Remains the same. In the forehead (N.B. Mental pictures here also in the eyelids. Give me a headache)
6. No, not very clearly.
7. Yes. No.
8. None. Yes, in writing a room there imagined, ^(for assistance) ~~I have seen some or when there was no one in it.~~
9. With printed figures.
10. At first I do them entirely mentally, but when puzzled try to imagine the figures written down.
11. Yes, I remember the position of the word in the line.
12. No.

J M Crighton



A

Dowell



f.11r

- I. The image is almost as clear as in reality.
- II. Objects are well defined when the eye of the mind is fixed on them. The part thought of is always clearer than the rest.
- III. Colours are quite natural, & plain.
- IV. As in Reality. Some particular position in which they have been seen is always before the mind's eye. When thought recurs to them.
- V. It stays steady for a long time, & does not change. No fatigue is felt.
- VI. Very well. But always by some particular feature, such as "beards", "high shoulders" etc.
- VII. I can always recall scenery easily. Pictures (mental) from Books are recalled with distinctness, in proportion to the excellence of description.

fill.

VIII. How. No.

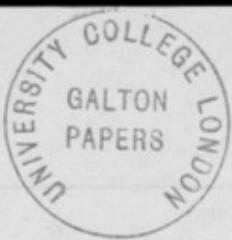
IX By written figures. Or by the place wh
they have occupied in the book, in which
they are written.

X. As on paper.

XI. No.

XII. Yes.

XIII. Yes: on a few occasions



Wolfestan

f.12r

Vinalizing.

(See back)
of pages.

- (1) The image is bright, quite as much so as the actual scene.
- (2) All the objects are defined with the same amount of distinctness.
- (3) The colours of the various objects are distinct and natural.
- (4) Mental images seem to be situated as in reality. No 3d colour.
- (5) Yes. It remains about the same distinctness.
- (6) Yes.
- (7) I am able to recall the scenery of a place if I have seen it three or four times not much unless. The description of scenery always gives me a fixed idea, and I always imagine what the characters and scenery look like even if there is no description given.
- (8) No difference. Yes. Once or twice when I have been dropping off to sleep in a room nearly dark, I have thought some one has been

standing in the room, and have said something and sat up in bed when the figure has disappeared altogether.

- (9) I always think of numbers as if they were written in my head.
- (10) I remember them as they are written in the book I have learnt them from.
- (11) Yes. When I whistle or sing a piece of music I seem to hear it with all the accompanying harmony.
- (12) I used before I could read, to take any book and make up a story pretending to read it off the book.
-

Visualizing.

Wolfgang.

f.13v

E.C. Harpur.

f.14r

- Y. P.
1. The image is distinct, but somewhat darker than the original.
 2. Only those in a straight line, or nearly so, with the eye are clearly defined, the rest melt away gradually towards the sides.
 3. The colours are moderately distinct, but green and blue seem very much alike.
 4. The breakfast table seems about two yards away, but different things appear at different distances, according to the size, seeming further off as they are larger.
 5. I cannot keep a picture steadily before my eyes; it vanishes into a luminous mist, and my head seems to turn round if I try to keep it.
 6. I can recall distinctly the features of all near relations, but of very few others.
 7. I can recall scenery that I have seen with moderate precision, but I cannot form any mental picture of scenery from books with any distinctness at all.
 8. The outline of the mental picture is larger in proportion to the details than a real one, and the mental one usually has dancing lights in it. I have never mistaken a mental image for a reality either in health or illness, and scarcely ever in dreams.
 9. Numbers, except about the first twenty, present themselves as printed figures; they are never connected with any patterns or colours. The first twenty usually appear in lines of three each.
 10. I do not think I see any mental picture in performing mental arithmetic. I usually begin at the lefthand side in any mental sum in the four simple rules.

80

11. No. I cannot form one
12. I can never recall any music at all
13. I used to be able to make mental pictures more distinct, but not so large. I have sometimes had a very distinct mental picture of what I had seen in my dreams.



E.C. Harpur.



J. C. Hutchings
Visualising.

1.

The image is of its natural brightness with regard to near objects; but far objects are dimmer than they would be naturally.

2.

The face is the most clearly defined part of the human form and light things are more clearly defined than dark.

3.

The colours are quite distinct.

4. Mental images generally appear to be situated as in the reality if anything a little more foreshortened and brought closer in front of the eyes than they would be naturally.

5.

I can keep an image steadily before my eyes. It keeps almost the same shade getting a very little brighter. I feel pain in my eyes & eyelids when I keep a mental image too long

8.

I cannot recall with absolute exactness the faces of my nearest relatives even, though having a good general idea of their faces.

7.

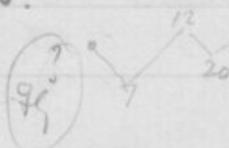
I always make a mental of the scene about which I am reading in any book, easily.

9.

The greater objects are more distinct are more distinct and brighter the further dimmer and less distinct than in reality. I have never mistaken an image for a reality but often when coming to a place which I have never seen before I seem somehow to recognize it and expect something to happen, which does. It is the same with some faces.

10. A

Numbers go down till to 7, then they rise to 12, descend to 20, rise to 100 and so on I don't know why this is.



Answers to Questions on Visualising

J.P.H. Birney
F.16
Oct. ~~out.~~ 17.9.15. 5. AM

1. Yes. the image is quite vivid & bright
2. The end of table nearest to me is most clearly defined
3. The colours are not so marked, but as the forms of the things.
4. Just before my eyes; I my self being there in imagination with the objects all round me
5. Yes for some little time but it becomes dimmer & less real - The brain too seems to get torpid if the same image is too long indulged in.
6. Yes generally very distinctly, but not always so - Some faces even among those I know well are very hard to recall to mind.
7. The general impression is always very vivid, though it always leaves an unsatisfactory longing for the actual scene - In reading a novel or in fact in reading a description of any thing the first thing I do is to form a mental & living picture of the scene with all its colours surrounding & mutations, sometimes connecting the scene with places I know, but often with quite original pictures. These pictures are the most vivid & lasting of any in the mind.

8. The real picture is on a larger scale than the mental picture which is narrower & further off.
9. With written figures, just as if on paper. Thus date appears thus 367.
10. I generally set the question as it would be written and then work the sum out with each part of the question separately the answer generally appearing in a line beneath.
Thus:
- $$\begin{array}{r} ab + c + c(a-b) + b^2 \\ \hline abc \\ a^2b^2c + abc^2 + a^2bc - ab^2c + ab^2c \end{array}$$
- That is just as it would be done on paper only the answer in all sums is in a line beneath
11. Yes, though of course the sense (& in case of verse the metre) assist in a great measure.
12. I often seem to hear music going on in the air around me & cannot get away from it - When I recall music which I can generally do very easily & I think pretty accurately, it always seems true that I hear it going on outside me.
13. I am afraid I cannot safely give any definite answer to this question



moon

Answers to Questions on Visualising

1 Brightness. The image of the breakfast table this morning is quite clear, and vivid; bright as in the actual scene

2 Definition. All the objects are clearly defined that I ever look at; of course the part near where I was sitting was most clearly defined

3 Colouring is quite distinct and natural.

4 Distance of They always seem to be situated in images the head

5 Command I can easily keep a mental picture over images steadily before my eyes; if it was tolerably bright to begin with, it does not change, if dim it gets a little brighter. The act of keeping it only tires my temples a little.

6 Persons I can always remember the features, relations, etc. and of any one else if I have carefully noted him.

7 Scenery. I can always recall scenery if I have noticed it in the slightest degree; I can also form mental pictures from books, I often imagine that the scene is taking place where I have stayed.

8 Comparison I don't think I see any difference between with reality. a mental or real scene; the former if familiar is so completely in my memory; neither have I ever mistaken a mental image for reality.

9 Numbers. In thinking of numbers or dates they are simply in my memory.

10 Mental arithmetic I do solely by memory holding a number of figures in my head without seeing them in any mental picture

11 I think in saying poetry by heart the rhythm helps me, and prose the sense.

12 Music I can recall mentally music in some degree, and any bells or sounds I hear I can turn into a tune as the ticking of a clock etc.

13 No

18

R. O. Moon.



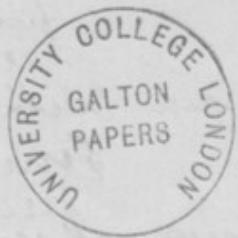
A Whitchurch

Answers on Visualising

195 ✓

1. Brightness. Not as bright as the actual scene. Seems as if during twilight.
2. Definition. I see the whole scene vaguely and each object strongly as I bring my attention to it.
3. Coloring. The colour is much better defined than the form especially blue, yellow & black
4. Distance. Just behind the eyes.
I could draw a machine of which I had an idea with considerable ease.
5. Command over Images. It is with the greatest difficulty that I can bring an image at all. They come of their own accord. If I bring them I cannot keep them. If they come, I can. The fatigue is felt in the back of the eyes.
6. Persons. I cannot recall any body's features with any degree of accuracy. I mean that however well I might draw, I could give no idea of anyone from memory. Although I drew my father about 3 weeks ago I cannot properly recall his features.
7. Sensity. With a fair degree of precision. In a novel I can imagine it very exactly, evening or night with greater ease than day light.
8. Comparison with reality. The mental picture always seems more pleasing than the reality & it changes rapidly in detail without the whole changing.

- 8 contained : I don't remember having mistaken anything for a reality
- 9 numbers I think of them as Arabic numerals printed on white paper
- 10 The arabic numerals come on the paper as I work the ~~stem~~.
- 11 I find the greatest difficulty in learning Latin by heart for I cannot keep mental images coming as quick as the ideas come in the Latin. In learning English & repeating it I can follow the ideas & make mental pictures as in reading a novel.
- 12 Music Although I cannot hum any tune out loud, I can recall any tune that has taken hold of me in my mind.
- 13 Yes, when I was about 7 years old I had an idea of a kingdom in far York at the north of Australia. I used to drill my soldiers whom I could see quite distinctly & I knew my capital city by heart my Queen I also knew very well.



Edward De ide Collier C.205

Questions on Visualising.

1. The image in my mind's eye of the breakfast table (I have only just come from it a little time ago) is fairly bright especially near where I sit but toward the side the image is dim. It is not so bright as the actual scene.
2. Only one particular part near me is clearly seen.
3. The colours of clunia bread &c are nearly as distinct as possible.

-
4. Mental images seem to be situated just in front of my eyes.
I can project an image on a piece of paper, though I am a very bad a poor draughtsman.
 5. I cannot see the picture steadily for long.
When I do so it becomes brighter for an instant & then gets dim again.
 6. I can recall with distinctness the features of all near relatives but very few others.
 7. I can recall scenery precisely.
I can form pictures mentally from descriptions of scenery if the description be very lively, but not unless

P.T.O.



f. 20v

8. The difference I see is that the mental picture shifts & changes, & will not keep still for long, whilst a real scene is quite still. I have never mistaken a mental image for reality when wake & in health.
9. When I think of numbers or dates I associate them dates with their place in the history. I know the numbers I make these colours—
1. slatey-blue, 2. red, 3. yellow, 4. orange, 5. light purple, 6. lilac
7. dark purple 8. crimson 9. brown 0. white. I can not account for it.
10. I always do a process of mental arithmetic just as if I was doing it on a piece of paper placed between my eyes & I do any sum in just the same way as an ordinary one on a piece of paper.
11. The saying lines by heart I do partly by remembering the English & turning that in Latin, & partly it seems to come out of me as if I was a machine, without thinking about it.
12. I can not recall any music but that with which I am very familiar and that only partly.
13. I can remember no instances of a power of making any kind of pictures in my mind's eye when I was younger.

There are very few objects of which I can raise up a mental picture only I think the cases of very near relations and not always those at will. Such an object as a breakfast table I am utterly unable to see.

And sometimes I can produce very indistinct pictures of well known scenery. Such pictures are never as vivid as the reality and are so to speak both on a smaller scale and framed in darkness. Much as if a picture of the person was quenched on to a black background. I have told you the thick I associate numbers with anything of the sort, but if so it is with the written figures. I cannot detect myself drawing any picture or performing

f.21v

a sum of mental multiplication.
in

(1) (2) (3) No.

Arthur L. Parry
S. eve.





J.R.Sumby. "Answers on Visualizing.
The Breakfast table."

1. Brightness. The image is much the same as in a photograph the background being dark & few colours coming out.
- 2 Definition. By concentrating my attention on one point in particular it is brought out into especially prominence, otherwise it is all rather dim.
3. Colouring. All the colours look black & white as in an etching, except blue to violet. & scarlet all shades to pink.
I cannot think of a green scenery, all is confused & grass? trees have no outline.
4. When my eyes are closed the image seems just before my eyes in the inside as it were of my eyelids, when open, it seems just above them in the part of the forehead above the eyes. Could I draw I have little doubt but what I could draw what I think of on paper.
5. I can face almost all images to come before me for a time but unless spontaneous, & of their own accord they soon would become indistinct, when fatigue sets in.



f.22v

behind the eye balls in the head.

6. I can recall with distinctness all or nearly all people with whom I am well acquainted.
7. Except green scenery I can form most scenery from memory, I can see vividly scenery described in novels, but most distinctly when I am in writing stories, I describe my own scenery from imagination. Moonlight nights & thunder & lightning storms are easiest to imagine.
8. Between scenes of reality & those called up vividly in the dark I see no distinction except in their vanishing. I have several times seen figures plainly for a time which have then vanished.

The most curious was this.

I was walking along a road at night, with nerves probably fairly highly strung as it was reputed to be haunted, & I had gone out to find the ghost if possible, when just before turning a corner I heard the sound of hoofs round it, & as I got round I saw coming towards me a huge horse about four times the size of an ordinary mare, galloping at full speed towards me, I colour

was dark reddish brown, its mane & tail were long.
I felt sure it could only be a vision of a seated man I so
stood my ground, & waited for it; Within a few yards of
me it disappeared. The curious part is that which I have
never witnessed before or after, that my ears were deceived
as well as my eyes.

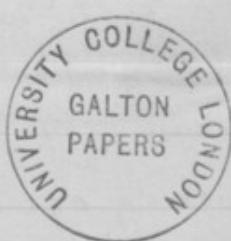
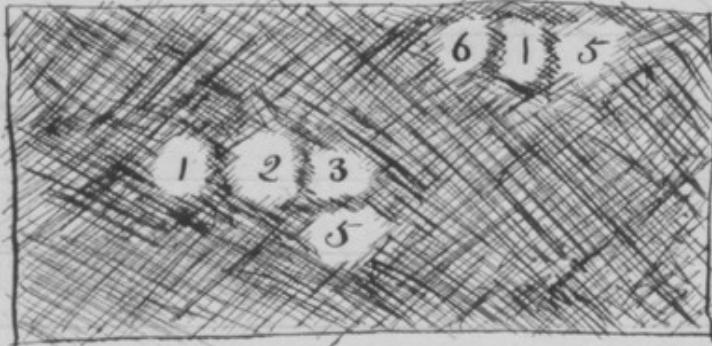
I have also often seen a man's figure standing beside me who
presently vanished, & the most vivid was when I was looking
into a photographer's window at the corner of Market St &
Cambridge. I looked up & saw a man looking in at the photo-
graphs by my side & I did not think much of it, but on
looking again I just saw him for a moment, & then he
vanished.

I found afterwards some days after, the ghost mentioned above,
it was a tall shadowy figure standing against a wall in
the moonlight. Its height was about 8 ft I suppose. I had
a cudgel in my hand ready to attack it, but when
I reached it, its place was empty.

If this was a spectral illusion I can hardly account for the
report of the road being haunted.

I have had the suggestion of a magic lantern being used to frightening people which may be probable.

- 9 I think of numbers as visible figures in a dark background with light surrounding the figures.
- 10 In multiplying numbers, they seem arranged as in ordinary arithmetic in the way described in no 9 but the answer is always at the right-hand top corner. Thus multiplying 123 by 5 the result would be



- 11 In repeating lines which I have learned by heart I almost always remember them by picturing the page of the book they come on & thus I can always tell what page (right or left hand) the lines come on & where one page ends & has to be turned over. Thus I always find it harder to learn again out of

a differently paged book what I have ~~can't~~ ^{can} & picture me.

12 I can think of all tunes I have heard in my head, but cannot without knowing them well & practising them, hum or whistle them.

13. When I was young I used always to connect passages in history & story books with places I knew of. Thus the scene of Richard II quelling Wat Tyler's mob always seemed to occur in a place behind the Colleges at Cambridge, called "the Back of Queen's College".

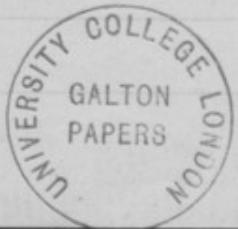
One horrible imagination of mine also was when I lay awake that I was going through a valley with rocks falling on all sides & only just getting out of their way, & this delusion always ended by my being fastened to a large wheel which rolled at a furious rate.

N.B. If wanted particularly I don't mind my name appearing & address too.

John Rawson Lumby

Merton House

Grantchester
Cambridge



B

f.25r
May 10th 1880.

Sunnside,

Winchester.

"Visualising."

1. Brightness.

I see the image almost as clearly as if I was really sitting down to it in reality.

2. definition.

The most clear defined objects are my own plate & cup etc; & the man at the head of the table, the surrounding ^{cup & etc} are not so clear.

3. Colours.

The colours are quite natural, I can see the pink rim round the top of my cup & the butter etc; quite clearly



f.25v

4. Distance of images.

I seem to see these pictures just in front of my eyes, not as if I were really seeing them. I can't clearly project an image on a piece of paper.

5. Command over images.

I can remember the picture, in a his copy, of a statue pretty well ~~after~~ it seems much brighter, ~~but~~ but after seeing it for some time my eyes become weak -

6. Persons.

I can recall, just as if it were really looking at them, with perfect distinctness the faces of relations & friends.

Scenery.

f.26r

7. I can for instance recall the waterfall at Aberiau Wales, very clearly indeed, I can see the water dashing along just as if I was really looking at it. I can't ~~recall~~ & scarcely at all imagine

a picture from reading a description of it.

8. I see the mental pictures with much more clearness than the reality. No.

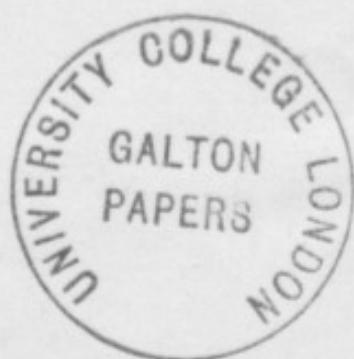
9. numbers

1. I generally remember dates by comparing them with one well-known date, such as foundation of Rome 753. B.C.

10. I seem multiply one figure & then leave the result in one part of the head & so on, & then put them together one by one.

11. I often, ~~never~~^{f.26.} in fact ~~never~~
always remember lines by ~~other~~
they are ~~in~~ on the page of the
book & I find it acts very well.
12. The notes seem to be written
somewhere in front of my eyes.
13. I can remember quite well
the picture I formed of what
~~the~~ school would be like when
I first went, I can't exactly
say that it corresponds
very well to my mental picture,
but it was fairly like.

E. C. Hornibrook -





✓ C.27

Clark.

1. Any image that I think of is perfectly clear, and is as bright as the actual scene.
2. If there is any particular object I have noticed at the time it comes before me more vividly than the rest.
3. All the colours are as distinct as in the natural scene.
4. I can recall all the faces of relations and others that I have seen two or three times.
5. Scenery comes before me according as I have noticed it, if it is a place I am acquainted with I can recall it very plainly.
If there is a good description of scenery in novels I can and do naturally see it in my mind.
6. In thinking of figures or doing a ~~sum~~ sum in my head I always see the figures written black on white in a straight line, and exactly the same as I should do it on paper, the last figure

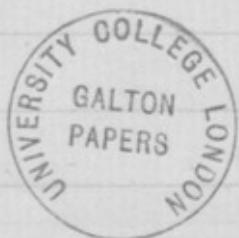
is however always plainest, although if I wish
I can recall a whole line at once.

11 To say ~~at~~ lines by heart, I always follow the
lines in the book, I have learnt it from.

13 I can remember when younger ~~shutting my~~
~~eyes when younger~~, shutting my eyes in bed and
after a time a picture came before my eyes
but before it came I was totally ignorant what
it would be and when it had come it was
merely fancy and not connected with any real
scene.

Strong from.

1. The image is bright as in the actual thing
2. and is quite clear
3. One particular object on which I look is definite at one time then looking at another I see it quite separately
4. When I think of one thing its colour and shape of it is well defined in my mind
5. As reality yes
6. Peoples names above the eyes
7. Not easily without thinking of them for some time
8. Yes when one detail only is thought of Yes.
9. Only when dreaming
10. With printed figures in an irregular zigzag line. The corners are generally where the number is a multiple and of 6 or 8
11. Not if on paper
12. No only because
13. Yes

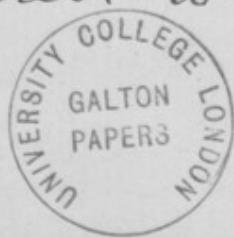


Thompson
is walking.

The old saying that the early bird catches the worm is specially applicable to the Breakfast tables at Winchester College so much so that when one day I came down late the breakfast table which I have in my mind's eye was as follows - At the top plates in more or less disorder of left mustard & butter on both sides of the table, in the middle was a bread plate whose only office at present was to receive the rejected crumb from all sides, two butter plates with no butter but with about 4 knives on each at the extreme end a coffee pot whose internal merits

Somewhat surpassed its external, two
 empty milk jugs, one in close alliance
 with the coffee pot the other just near
 me. With the exception of a large mess
 of spilled coffee extending from the
 opposite plate to my own and several
 small slits in the clothe round the
 bread plate, there was little more to tell.
 Of course I need not say with what
 delight I sat down to this Savoury
 Breakfast.

- 1 It is not quite as bright, the objects
 are clear but their localities not so
- 2 The objects nearest to me most defined
- 3 Perfectly



- f.31
- 9 The only way I remember numbers is
by associating them with the place
on the page on which they are written.
- 10 I see the numbers in my head just
like they ~~would be~~ ^{would be} if put on paper.
- 13 No.

B. Talbot.

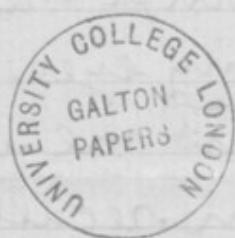
Cloister Inn
1880



Answers on "Visualising". Deacon.

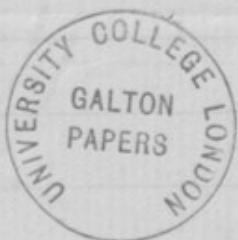
- I. The image is dim. It is not as bright as the actual scene.
- II. all the objects are pretty well defined at the same ^{time}, I do not see one part more clearly than another.
- III. all the colours are quite distinct and natural.
- IV. I cannot keep a mental picture steadily before my eyes. If I do so it becomes dimmer. It pains me in my temples.
- V. I can recall with distinctness the features of near relations and many others.
- VI. I cannot remember scenery with precision of detail. I can easily form mental pictures from the descriptions in books.
- VII. Numerals are always associated in my mind with written or printed numbers.
- VIII. I think I see the figures written down on a piece of paper.
- IX. I do use a mental picture of the words.

sometimes in saying lines by heart.
¶ I can recall and imagine music.



Naufer f.33

1. Clear but not quite as bright as the original
2. I can not see much at a time I have to look think of each thing before I see it clearly
3. yes.
4. numbers always look like printed figures
5. I do it just as I should on paper only in print
6. no.



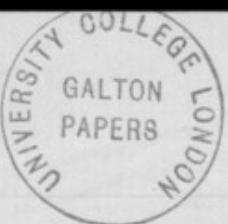
W. D. Hoare

May 8th 1880

- I The image is quite clear, and is quite as bright as the natural scene.
- II The objects are well defined & I see all the parts well defined equally at the same time.
- III The colours of china head etc are quite natural.
- IV In the head.
- V I cannot keep a picture very long before my eyes, I feel weariness in doing so at the eyebrows.
- VI I can recall the features of all people I know fairly well.



- VII I can recall scenery with moderate precision of detail. I can form pictures but not easily or good ones
- VIII I have mistaken images for realities
- IX They are associated in my mind with figures on paper in my own hand writing. Dates son generally in print. I cannot account for this
- X I do mental sums as I should on paper remembering the lines before & drawing lines as in a sum
- XI I use the books print but not to any great extent
- XII I can recall tunes but have no ear for music.



Question.

Plumtree

f.35r

"Visualising."

1. Brightness. The image is quite clear to my mind and is ^{almost (for a short time)} as bright as the actual scene.
2. Definition. To a certain extent all the various objects on and round the tables are well defined but those in front of myself & of my neighbours sitting opposite to me & at my side are the most clearly defined.
3. Colouring. Yes. The colours of bread, china, butter, coffee, cocoa, the table, its' cloth and other objects are clearly visible to me in their natural colour.
4. Distance of images. i. Directly in front of the eyes. ii. Not at all clearly.
5. Command over images. Yes ^{clearly} for a certain time say about two minutes but after that space of time it becomes dimmer and my head feels tired & fatigued just across the forehead over the eyes.

6. Persons. I can hardly at all recall the features of nearest relations but strangers or people I have known less intimately or friends I can recall to mind very easily.
7. Scenery. i) Any scenery that has particularly taken my fancy after having seen it for a short time I can easily picture to myself ^{but} ~~and~~ with but only a moderate amount of precision of detail.
ii) Pretty easily for instance mountains, forests &c.
8. i. The mental picture is considerably dimmed than the real scene.
ii. No, not in my knowledge as long as I can remember when I was in perfect health.
9. Numbers to me are nearly always associated with printed figures. Thus if I think of numbers I always seem to see the number 1234567890 in a row but I could not anyhow explain for this association.
10. I always write down so to speak in my head the given no. and then proceed as in an ordinary sum on paper and take a very long time doing the sum as a lot of imaginary figures get confused in

my head and then I have to begin my sum again.

10. If perhaps I had to multiply 1257 by 23 I should set down in imagination the 1257 and then first say $3 \times 7 = 21$ and set down 1 and carry 2 then $3 \times 5 = 15$ set down $\overset{+2}{\cancel{1}} 5$ + carry 1 (71) then $3 \times 2 = 6 + 1 = 7$ (77) then $\overset{+2=17}{\cancel{7}} 7$ (3771) This would be an imaginary top line. Then I should set to work again and say $2 \times 7 = 14$ put down 4 under the last 7 of 3771 + carry 1 then $2 \times 5 = 10 + 1 = 11$ put down 1 under the $\overset{+2}{\cancel{2}}$ 7 + carry 1 (14) then $2 \times 2 = 4 + 1 = 5$ set down 5 under the 3 ($\overset{\text{left}}{5}$ 14) and then say $2 \times 1 = 2$ set that down to the $\overset{\text{left}}{1}$ of the 3 (2514)
 Then I should have 2 imaginary lines 3771 + 2514 and should add up thus $= 1 + 0 - 1$ then $7 + 4 = 11$ set down 1 to the left of the other 1 + carry 1 (11) $2 + 7 = 9$ set that down to the left the $\overset{+2}{\cancel{2}}$ 1 (911) then $5 + \overset{3}{\cancel{1}} = \overset{8}{\cancel{6}}$ put down 8 left of 9 (8911) + carry + then $2 + 0 = 2$ put that left of 8 (28911). In that long & very doubtful way I should work or rather attempt to do my sum.

11. Always I form a picture of the book e.g. of Horace & the order and general look & metre of the lines.

12. Music. Yes. I can always to a certain extent recall the melody or tune of any particular piece of music which took my fancy e.g. songs &c, but more especially I can (and prefer to) recall the melodies of Sacred Music such as Hymn Tunes, Chants, and snatches of more long and elaborate pieces of various music by the great composers. I very often try to imagine Music in my mind and to form small tunes but never after the time am able to recall them.
13. Not at all clearly, but I have vague recollections of when I was younger often trying to puzzle himself by picturing (to myself) what "School and School-life" was like also what "College" life was like and moreover in thinking what wonderful things ^I would do if ^I lived to be a man and certainly I used often to draw most extraordinary pictures.

May. 10th 1880.

R. G. Plumptre.

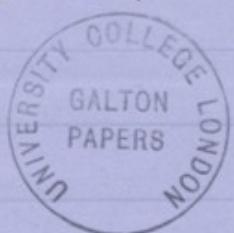


Plumptre
Blackning
May 11 1880

Buddow.

1. The image is dim, and not nearly so bright as the actual scene.
2. The objects are not all seen at the same time, but each separately as it is thought of.
3. The colours are seen, ~~but~~ but faintly.
4. The image appears to be inside the forehead, just behind the eyes.
5. When an image is kept before the eyes it grows dimmer, and tires the eyes.
6. Fairly distinctly.
7. No.
8. (second question) Never.
9. No.
10. I imagine the numbers as divided into parts, and so put together, as to multiply

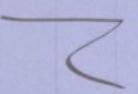
$$\begin{array}{r}
 17 \times 10 = 170 \\
 10 \times 9 = 90 \\
 9 \times 7 = 63
 \end{array}
 \left\{ \begin{array}{l} 170 \\ 90 \\ 63 \end{array} \right\} = 323.$$
11. No.
12. A little, not much.
13. None.



f.37.

Budd new.

Answers & questions
on Visualising.



Wockham

f.38r



- (1) *Six. No!*
 - (2) *All at the same time*
 - (3) *Yes*
 - (4) *As in reality. No unless I have seen the actual object very often*
 - (5) *No. Those I see most, more clearly than the rest*
 - (6) *No*
 - (7) *No difference. No*
 - (8) *I should not picture it at all*
 - (9) *No the position of words on the page would assist*
-

528

G H Wickham

~~Twist~~

Unsigned

f.39

I & II. The image is not very clear to my mind's eye, if I try to see it; it is indistinct ~~for~~ in the details. The picture seems fairly clear to my mind without my being able properly to see it.

Some particular part of the picture is most clearly seen.

3. The colors are natural and fairly distinct.

9. When I think of figures it calls them up into my mind as I should write them myself. Names often suggest particular kinds of people to my mind, but I daresay that is a good deal knowing so & so of such & such a name.

10. I believe I make the figures in my head as if they were written before me only ^{dinner}.

13. I don't clearly remember any. I remember one or two vivid dreams.

A. N. Bennett.

1. The immediate image is quite clear, but not as bright as in the original generally.
2. Only a small space in which you concentrate your attention is seen perfectly clearly at the same time.
3. The colours are not all natural but sometimes ~~tighter~~ brighter.
4. The image seems to be placed just in front of the eye, and it is possible to project it on to a clean piece of white paper.
5. It is possible to keep a picture for some time quite steadily, and it is bright for some time but gradually gets dim.
The fatigue is felt in the front part of the eye.
6. Faces are more difficult to recall than common objects, but still it is possible.
7. Yes it is quite possible if you think about them long enough.

8. A vivid mental picture never has its edges clearly defined, but goes off like a picture of a magic lantern out of focus. I have never mistaken one.
9. If I think of figures or dates, I always think of the way in which they are ordinarily written, in dates I always think of the way I have last seen it written.
10. In mental arithmetic I see a sum in my mind as if it was on paper.
11. I never remember the words, but I think of what place in the page or line it comes. ~~and~~
12. In nearly a time, I can see the notes on the different clefs and what position they hold.
13. I used to think of all kinds of things and places, for instance I used to imagine the interior of a ship, or any place I had been told about, or any picture illustrating some story.



f.41v

A. M. Bennett

R. J. Pinney.

f.42r

I can see the whole table as it then was but only the part immediately round me accurately

- (1) The image is clear and almost as bright as the original
- (2) All which I could see in the original at a time are, but to see the other ends of the table my mind's eye has to be turned. so to speak. The part immediately round & opposite is most clearly seen
- (3) Yes they are.
- (4) In front of the eyes. I can project an image onto paper.
- (5) For a second or two I can but the features keep changing
- (6) (a) same as six. (b) yes.



(9) numbers seem written or printed.

(10) ~~By~~ By imagining the paper before me with the figures on it, the same as if doing it on paper in reality

(11) if I have not learnt it quite enough.

(12) Yes.

(13) yes, & sometimes when doing nothing I do still.

~~The Revd. Dr. Du Boulay Hill.~~
~~Kingsgate Street.~~

Questions on Visualising



- 1) The image is perfectly clear, but not as bright as the actual scene; it seems otherwise exactly the same as the actual scene.
- 2) All the objects are well defined, but I only notice particular details when I concentrate my attention on the particular person or object; no particular part is more clearly seen, ~~naturally~~. Then another, when I think of the whole.
- 3) The colours of everything are perfectly clear before me, even to shades of colour.
- 4) They do not seem to be ~~in~~ ^{on} any place that I fix my eyes on; ~~so~~ I do not notice at all what my eye is resting on; but they seem nevertheless to be in front of me, ~~but~~ I cannot draw the image, but if I had the power I have it quite vividly enough before me to know exactly what I should want to put. I can see it as well with my eyes shut, as open.
- 5) I can do so pretty easily; at first it becomes brighter for a short time & then remains so without alteration.

- 5) The act of keeping the picture does not seem to become wearisome; I find a difficulty in preventing myself from thinking of other images, in which case I lose ~~the~~ sight of the first image. The only thing necessary seems an exertion of will.
- 6) Yes, distinctly. Of all relations; & I have a fair image of anyone I have seen a few times.
- 7) Yes, of ~~any~~ scenery I have seen within about the last two or three years.
- Yes, especially bright pictures.
- 8) Chiefly an absence of high lights, & deep shades; also rather a want of life.
- No.
- 9) ~~Reader~~ Dates are associated with printed figures; when I think of ~~a~~ date which know quite well I see it printed in the book where I learnt it. The only way I can explain it is that it is the only way I can remember them, not being able to learn by rote.
10. Exactly: the same way as on paper.

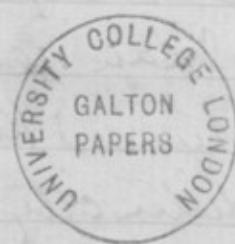
- 10). I see the multiplier & multiplicand in their right place, & multiply see the figures in their right places under one another. If I try more than three figures multiplied by three figures I generally lose sight of the first line of product.
- 11) If I have to learn them hurriedly I learn them so as to remember by the mental picture; otherwise I do it by the sense, if not English, & ordinarily if English; I do not then have a mental picture.
- 12) I can recall with perfect ease almost any time I know, & can imagine then it distinctly. Now & then I have been quite unable to get hold of some particular time even though I generally know it very well.
- 13) In fairy stories ~~it~~^{it's} a great delight to think over, after reading, what I had read; & in so doing, see pictures of it all in my mind's eye.

R. L. Morath.

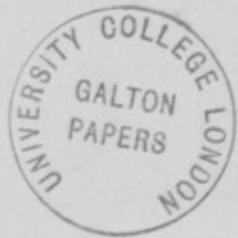
69 Knippel Street
Winchester.

f.45v

~~Rev. ed. S. Hill~~



Seawell



- 1 dim. No
2. No. Yes.
- 3 not quite. Rather hazy.
- 4 Just in front of the eyes sometimes as in reality.
5. No. dimmer . just by the eyes.
- 6 No.
- 7 No.
8. not such clearness and only particular features are to be seen.
- 9 they are associated thus in my mind in a long line
- 11 ~~No~~ Yes.
- 12 Yes.
- 13 Yes

C

f. 47r
V

Watson Questions on Visualising. Watson
The bread, treacle, and cups are very distinct
the cup being perfectly white. I can also see
the colour of the meat, but the cocoa is rather
hard to remember.

1. It is not quite so clear as the real article
 2. The objects seem defined one after another.
 3. The colours are quite distinct.
-
4. In front of the eyes, but only just in front.
I can not project an image.
 5. I can only see it for a minute, but when younger I could keep it for some time & the pain was usually in the eyes themselves.
 6. I can recall the features of all my relations,
distinctly & almost all my friends.
 7. Only scenery that I often see, such as the few fields in front of our house. I can usually form pictures of scenery described in books.

8. The only difference is not the power of keeping it long before my eyes. I used to mistake images rarely when I was younger.
9. The smaller numbers are associated with both printed letters and numerals but large ones only with numerals. as 12, twelve &c
10. I seem to see the numbers printed on paper
11. I seem to see the words on paper.
12. I can recall the tones of music easily but not so easily the real notes on paper
13. I used to see colours whenever I shut my eyes something like those in a kaleidoscope & could see umbrellas &c.
-



f.48v

Watson

Hawker.



- I Dim. No.
- II I can see the table cloth on the table quite plainly but not the objects on the table.
- III No; they are not distinct; & but they are natural.
- IV Written figures.
- V See the figures as it were written on a piece of paper, when for instance I wanted to multiply $56 \times$ by 4, when I had multiplied the 6, and carried on the 2, I should no longer see on the imaginary paper the 4, but should have to remember it.
- ~~VI~~ ~~VII~~ Yes.
- XII No.

A G Hawker. May. /80.

"Visualising":

G. B. Courtney

1. The image is perfectly clear. And as bright as the actual scene.
2. The objects that I imagine nearest to me are slightly brighter than those at a distance, though there is not much difference.
3. The colours are quite distinct and natural.
-
4. Mental images seem situated as in reality.
-
5. If I blink the image departs and it is some seconds before it returns, but it keeps perfectly clear until then. The image gradually changes sometimes being brighter and sometimes dimmer.
The fatigue is felt in the eyes.
-
6. Yes.
-
7. Perfectly. — I always do so when reading.
-
8. In the dark the scene is brighter but only a small portion seems visible at once; the surroundings being quite black.
No.
-



9. Always with printed figures.

—
10. I should imagine the multiplication table as it is in "Colenso's Arithmetic" as it is there I first learnt it.

—
11. I always imagine the page on which the lines are in reality.

—
12. Yes; though only after hearing it two or three times.

—
13. Yes; especially when I was very dangerously ill, during which illness three of my brothers died.

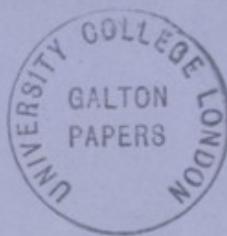
G. B. Courtney

May 8th 1880

{ C. 51v

Visualising

f.52.c

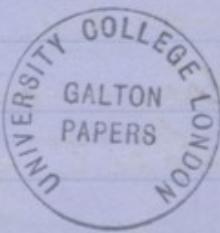


H. L. Bollon

- I. Yes.
- II. The most clearly seen are those which were nearest me
- III. Quite.
- IV. Some way off and in front of the eyes in some cases, others in the head. Yes I think so.
- V. For some time, it becomes brighter & gets wearisome at the back of the head.
- VI. Relations quite distinctly in some cases friends as much so but not as a general rule.
- VII. Not very well. But I can always picture a place by the description in a novel.
- VIII. There is very little difference. No.
- IX. For arithmetic written figures, dots generally printed.
- X. Imagine it is written upon the wall sometimes in a long ^{some} ~~time~~ I cannot ^{see} remember the first number.
- XI. Seem to see them as they are written in the book.
- XII. I can recall some pieces which I have liked when heard them for the first time, but not many.
- XIII. Yes ~~but~~ sometimes a short answer, sometimes ✓

Rev. A. G. B. Hill.

Dyson



1. Clear. Yes.
2. Tablecloth is most clearly seen.
3. Yes. —
4. Just before my eyes. Yes.
5. Yes. Brighter. In the eyes eyes.
6. Yes.
7. Yes. Yes.
8. Once. Yes: a short time ago, whilst walking in the street, I was thinking of a setting-board that I had some dirt on it, this dirt I attempted to blow away.
9. Printed figures; from learning them out of a book: some dates I remember as written having learnt them from writing.
10. As I should on paper. In multiplying, for example 777 by 77 I should see there five figures & the next; & then they would disappear, & after thinking of each figure, it in turn

would disappear. At the end of the sum they would all appear before me as on a sheet of paper.

11. Yes; I see the place in the page.

12. Very little.

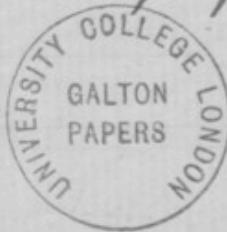
13. Yes; I had a great power of making pictures in "my mind's eye" & have still great power in that way.

R. J. Dyson
Winchester College
May 18th 1880

wish

✓ f.54.

1. It seems a sort of dark grey, no
2. Some particular part is well defined.
3. No.
4. In my head. They seem like this
- 5 No, dimmer & then goes. Eyes
- 6 Yes my family
- 7 Yes. Yes.
- 8 They appear very much smaller. Once when I was ill.
- 9 Like this 1. 2. 3. in Black.
- 10 123 I should put the 1. on the right
 $\frac{7}{8 \text{ to } 1}$, hand side of my head like the two
to carry on the left the rest in the middle.
- 11 I make an imaginary word out the 1st
letter of each line & then think I see the page.
12. Yes
13. Yes I used to make animals faces etc
from patterns of wall paper, curtains etc



which
paper

454.

- (1) The image is dim, it is not so bright as the actual scene.
- (2) The objects are not all well defined and the part nearest is the clearest.
- (3) The colours are not ~~but~~ natural.
- (4) The image is before the eyes. I could project an image on paper.
- (5) I cannot keep the mental image steadily before my eyes. It becomes dimmer. The fatigue is felt in my forehead.
- (6) I cannot recall with distinctness faces.
- (7) I cannot recall scenes with precision of detail, and I cannot imagine a picture from the description of a book.
- (8) The vision is ~~as~~ clear as the real scene. No
I do not think so.
- (9) When I think of numerals or dates I do not associate them with colours etc.
- (10) In multiplying I should think of one number and put the number by which it is multiplied below it.
- (11) I use a mental picture of the words.
- (12) I have a little power not much.
- (13) No.



F.56r

Questions on "Visuality." Pyleheart.

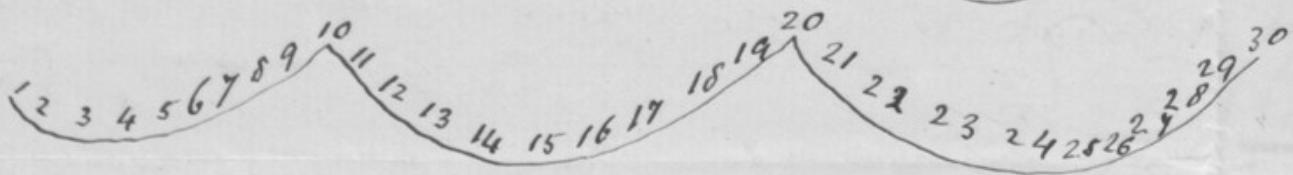
1. The image is as clear as the actual scene. If not clearer.
2. The meat on my plate ~~was~~^{is} more formed clearly & in my imagination than the plate itself. The coffee in my cup is more visible than the cup itself.
3. yes. but some more than others.
4. As in reality. yes.
5. yes, it becomes brighter, and the fatigue is felt at the top of the forehead.
6. No, not well. I can indistinctly recall the features of very near relations, but on ~~think~~ imagining them before my

f.56v

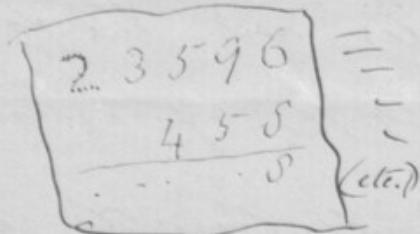
eyes for some time they become
brighter.

7. Yes, better than persons. I gener-
ally form mental pictures from
novels.

9. With written figures



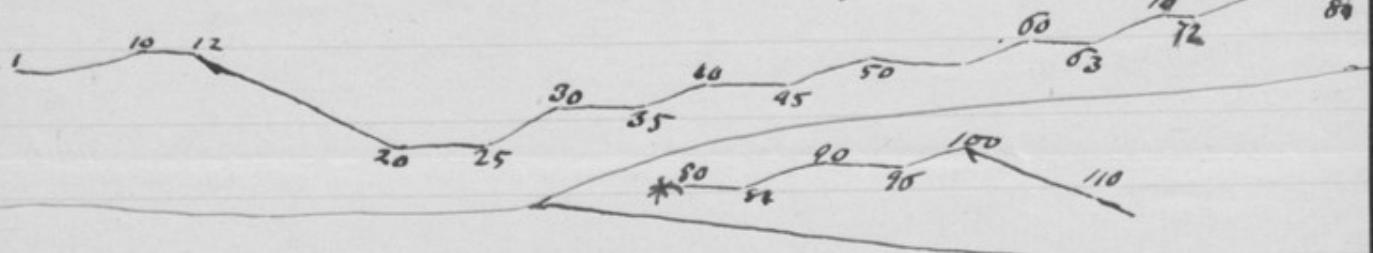
10. I should imagine a piece of paper
with the figure on them like this:



13. Yes, what I call "building castles."

Good enough.

1. The image is fairly clear but not so much as as the actual scene.
2. Objects are equally defined.
3. Colours seem distinct and natural.
5. When I keep a mental before my eyes it is rather uncertain at first ~~by~~ by degrees it settles down and becomes clearer.
6. I cannot recall people's features immediately but I can after thinking a little.
7. I can form mental pictures from descriptions but if I see the real object afterwards, I find that I had rather exaggerated it.
8. I associate numbers with a pattern like this:



10. In doing multiplication in my head instead of beginning with units I begin with the figure further to the left as hundreds, thousands, etc.
 11. In saying lines by heart I make a mental picture of the page on which they are printed, and ~~and~~ I can always remember where the bottom of the page comes.
 12. Often when I cannot recollect tunes of songs by their names I can by their words.
-

1. A

f. 1

1. The image is quite clear, & its brightness is comparable to that of the actual scene.
2. Our neighbour's broken plate is most sharply defined as I dropped wine on it & broke it. O
3. Every thing is quite natural in colour & distinct.
5. Mental images appear at a distance corresponding to reality.
I can project an image on a piece of paper, as a Salmon Fly, but could not trace it on the paper.
9. A real scene & a mental picture are exactly the same
I have never mistaken a mental image for a reality.
10. Numbers & dates always appear thus before me, as I used to think of them as if I thought of a hundred faces before me 100.
13. I can recall music but not images of it.

No. 2.



Natural Science

f. 2

A

(2)



1. Clear. Yes.
2. Yes No
3. Yes
4. Without the head ~~in~~ floating about. No.
5. No.
6. The numbers seem to me to be arranged in a long winding column. I cannot account for it.
7. I can go right through a time in my head without, but no power of composition.

3.

A

f. 3

- I. Image fairly distinct though brightness of it not nearly so great as in actual scene.
- II. Whole scene never distinct at any one time, part distinct rather contracted.
- III. Black and white quite distinct, other colours rather faded.
- IV. Appears to be in back of head. Cannot project an image onto a sheet of paper.
- V. Cannot call up a vivid image in the dark, ^{have} not to my knowledge mistaken an image for reality while awake.
- VI. Numbers appear as figures arranged in rows from left to right. cannot account for it.
- VII. Yes.

A (4)

XQ

(Therefore)

~~as recorded~~
(This was read
with previous b.d.)

1. The image is only fairly clear but its lightness can not be compared to ^{that of} the actual scene by any means.
2. I can see every thing that would be seen from the position in which I imagine myself. I can imagine myself sitting or standing in any part of the room.
I do not see the things ~~on~~ the table plainly except by thinking of each one separately
3. The colours of the things on the table are not natural for they are quite dim. By thinking of each thing separately I can get a moderately bright image.
5. The mental image seems to be situated at a natural distance from the place where I suppose I am situated. I can not project an image on a piece of paper.
9. It is shadowy and dull and although all the parts are present is indistinct.
I have never mistaken a mental image for a real object.
10. I have no association with figures but that some are soft and nice (6, 2, 8, 9) whilst others such as 3 & 11 ~~are~~ are harsh and uncomfortable

If I am adding two numbers such as 6 & 7
together I see two masses of something to represent
six and a piece outside one ~~---~~ -
of them ; I always say 12 & 1.

Dates are always written in big figures in the
air. Any numbers I have to remember I see
on the page on which they are in the book
in their proper position but surrounded by
mist. The same applies to formulae.

Numbers are associated with no diagram or colour
but simply appear as though written from left to right.

I have no power to of imagining music.

13.



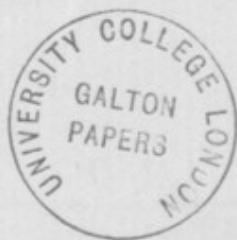
A

f.5

5



1. The image is fairly clear but not nearly so bright as in the original.
2. The place of sharpest definition is more contracted.
3. The colours are not natural, all the objects appearing in shades of grey.
4. Just before the eyes. I cannot project an image on a piece of paper.
5. A very vivid mental picture is cast in shades of grey, black & white.
6. I always see numbers & dates written as if I had written them. They are of a grey colour.
7. I can recall music a little mentally.



6

A

f.6

1. The image is very dim. It is not nearly comparable to the brightness of the actual scene.
2. Most of the objects are feebly defined; It is more contracted.
3. Colours are distorted.
4. They seem to be further off than the actual distance.
I cannot project an image.
5. The mental image is within the eyeball.
6. I cannot project an image on a screen of paper.
7. The mental image is dim, and the colouring is not so bright as in a real scene. I have never mistaken one for another.
10. No.
13. I can recall music mentally.



7. A

f. 75

1. The image is dim, dark, & smaller than the actual size.
2. X The objects nearest to me show most distinctly.
3. The whole picture has more or less of a dark green tint.
4. They appear to be situated rather above the level of the eye about a foot or so, in front of me.
5. I cannot project an image on a piece of paper.
6. The mental picture is much smaller & very far off.
7. I can ^{sometimes} see my own figure in connection with others.
8. No.
10. The numbers from 1 to 20 go in a horizontal line from right to left. From 20 to 100 they go up perpendicular. From 100 & ad infinitum they go from left to right. Dates always go in a perpendicular st line downwards until the Norman Conquest when they arrange themselves in periods, thus.

1066	1100
"	"
1100	" 54
1054	1272
"	"
1272	1299
	etc.

I think the association about the dates comes from this arrangement of the dates of the kings in a little History I once read. The numbers along

seen in ordinary figures in my own writing. f. 7v



(8) A

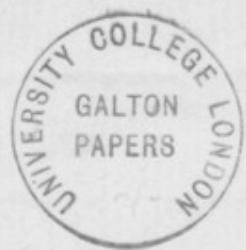
1.8

~~H. Combe~~

- (1) The vision is fairly clearly but not as bright as that of the actual scene.
- (2) The objects are not all clearly defined at the same time. No.
- (3) Yes.
- (4) Just in front of the eyes. No.
- (5) The real scene is rather brighter than the other. No.
- (6) No.
- (7) I have great aptitude for mentally recalling music, ~~but not for imagining it~~ and I also can imagine it, i.e. I can hear it mentally without producing a sound.



A

No 9.

(1) (a) Fairly clearly. (b) No.

(2) (a) I have to fix my eyes on one spot in my imagination & that alone is fairly clearly defined.

(b) Before my eyes.

(c) No.

(3) Yes they are quite natural.

(4) (a) the one in the dark is dimmer & more indistinct.

(b) No.

(10) No.

13. No or very slightly

A

f. 10c

10

1. The image is distinctly clear. I can without difficulty imagine myself at the breakfast table and remember feeling quite well being kicked in the leg, and very nearly getting my breakfast taken.
2. Most of the objects are pretty well defined, especially those which were nearest me.
3. The colour of the toast and chips were are pretty natural but the mustard and the butter did not at all appear to be of ^{the} natural general colour, but rather paler and thinner and not up to the standard colours.
4. The image of a place where close or far sees the in the head. But I don't think I could project it on paper.
5. The real scene appears a great deal more planar than a vivid image called up in the dark world.
6. Dates, if not numerals, are associated with ^{sore} ~~as~~ ^{as} ~~peasant~~ images as if one thinks of Shrove Tuesday he imagines himself sitting down to pancakes and having ^{uncon-} fight afterwards.

f. 10v

13. Yeo.



No 11.

f. 41r

A

I Image dim: the brightness is much less than in the actual scene

II Only one object is very clearly visible at the same time

III Colours not very distinct

IV Mental images appear to be situated in the eyeball: the image of anything generally is on a dark back-ground, & only that one thing is seen, at least clearly.

For the time.

Cannot project an image on a piece of paper.

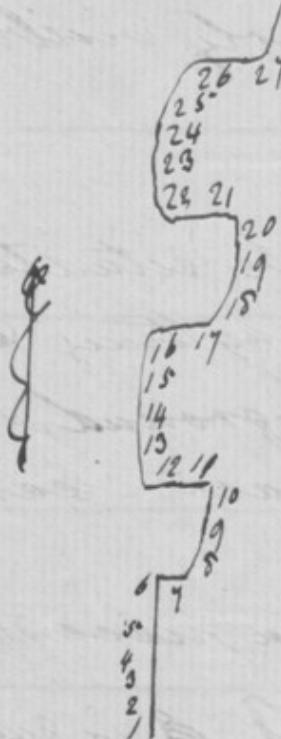
V. A mental picture in the dark is much less distinct than a real scene, & much darker in colour: but if I think of one particular part for some time, it appears to grow clearer. Have never mistaken a mental image for reality, in health & awake.

VI. Numerals, (& dates a little) are connected in my mind in a sort of perspective line, & which zigzags a good deal & turns to the

A

(11)

right at each 6: this I can only account for by the fact that the first addition sum I could grasp was $6+4=10$.



The months of the year also go away in a sort of perspective, the 10 Roman Old months seeming a little lower down than the others.

(13) I can ~~go through~~^{go through} a time I know in my mind, but cannot imagine it.

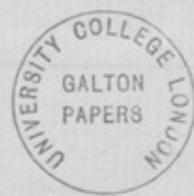


No 12.

A

p. 125

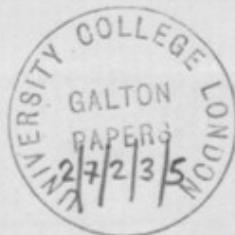
- (1) The image is fairly clear. Its brightness is comparable to that of the actual scene.
- (2) Yes. The plane of sharpest definition is more contracted.
- (3) Yes.
- (4) I can think of a thing anywhere I like but the distance between it & my eye is always filled up with some foreground.
- (5) In the darkness there seems to be a film between my eyes & the object.
- (6) No, unless except in certain cases which are more attributable to absence of mind than to any mistake of my mind.
- (10) No, I see them in my own head writing.
- (13) I can recall music mentally.



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A

- ~~15~~
- 1) Quite clear & it is just the same.
 - 2) When one thing is clear the other things are not so clear.
 - 3) Quite vivid and distinct.
 - 4) Tense close in front of the eyes. I could not draw the image on paper because I could not get the right perspective.
 - 5) None that I can discover. Yes in illness twice.
 - 6) Always imagine that the months of the year have really at the top the are down ^{so} as have February at the bottom thus. Because of this probably is that during I went to February in the country and from course I came to school and before formed.
 7. Yes, I could know a time in my head but not invent one.



Not included
among numbered
copies

f 13 v

A

I.

Question 10. I imagine my numbers to up to 9. by what finger they come on, when I count upon them, after 9 I have no mental imagery, I would be on my 2^o finger or v 7 would be on my 2^o by going up to & the fifth & coming back. The origin of course is the habit of counting upon my fingers. so that I think of my numbers so. Gates have now imagery very limited. In recalling passages I think sometimes of how each part was situated on the page of the book I read it in. This only partly when at a loss how the words go on.

(3). I can recall music without making the sound I imagine myself hearing it, though I do not really do it. I cannot distinguish parts but I can mentally hear a whole band at once according as the piece has been played.

5) Mental pictures seem to be situated in the same position relative to my eyes as the

B 1

f. 1v

reality has been, if I look up & think of them
they follow my eyes up, in the same position.
I saw half project an image on old paper but
could not draw round it, it being too indistinct
I see the effect but not the details of it.

- 1) The image is somewhat dim I see the general effect, but if I pitch upon single things the rest nearly vanish, as far as I am able to tell what seems to me.
2. It is rather smaller as a rule. some things stand out more than others.
3. The colours are very nearly distinct & natural if I do not think of too much at a time
4. I am inclined to imagine scenes as better than the reality is



B



- 2
1. (1) The image is ~~seen~~ perfectly fairly clear.
 (2) Quite comparable.
 2. (1) All the objects are defined in my mind fairly well.
 (2) No.
 3. All the colours are perfectly distinct in my mind.
 4. (1) Just in front of the eyes.
 (2) No.
 5. (1) When I have a mental image before me it is difficult to retain it ~~so as~~^{while} to comparing it with reality, but as far as I can tell it appears to me that there is no difference.
 (2) No.
 6. Minerals come to my mind in written form.
 7. I can mentally record music.

3. B

f. 3

- 1/. My image is fairly clear, if so
- 2/. Only one object is defined at the same time
- 3/. The colours are very faint.
- 4/. The mental image is in my head. No -
- 5/. I have never mistaken a mental image for a reality -
- 6/. I have got no fixed diagram, but when figures I call up figures in my mind they seem to be printed.
- 7/. Yes -



B (h)

4.
F. 45

1. Fairly clear. Its brightness is equal.
2. ~~more sharply defined separately but all are pretty well defined at the same time.~~
3. Perfectly natural & distinct.
5. Just in front of the eye; ~~or at a distance, in the farthest point of view or nearer at will.~~
I can project an image on a piece of paper.
9. Just the same in the dark only fixed.
No.
10. Only by the shape of the figures; and by a diaphragm in the forehead in the shape of a circle round which the numbers revolve: this latter I can only associate with the measurement & describing of angles in Trigonometry.

13. I can imagine the player and the sound of the playing as it strikes my ear, but I must recall it to remember the tune.

10.) Diagram to 10

Very faint.



and principally remembered without anything



B

F 5r

No. 5

Ans. I.

- ① The image of my breakfast table is fairly clear
② The brightness is ~~fairly~~ ^{quite} comparable &c.
~~I always see myself on the scene~~
but I see the scene from a point considerably higher
than the scene & from a pt. behind my back as
represented in the scene.

Ans. II.

- ① All the objects are fairly defined at the same time.
② No. J

Ans. III

Yes.

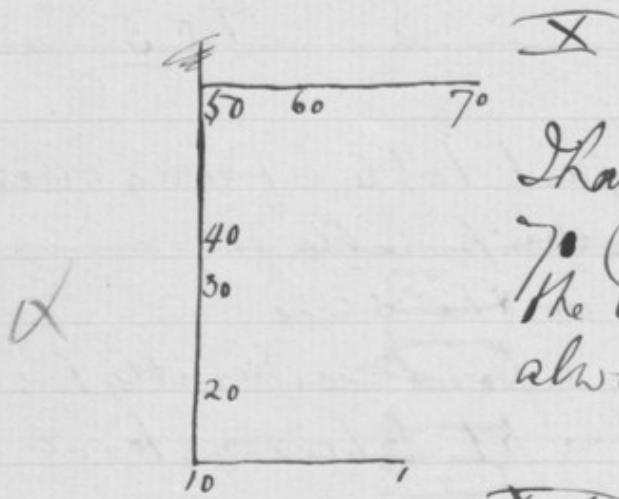
Ans. IV.

- ① Never in the Head. ~~near about~~
But always at a distance corresponding to reality.
② Never

Ans. V.

The former is slightly blurred & always coloured
bright reds greens & blues being the most usual colours.
I have continually mistaken a mental image for a
reality.

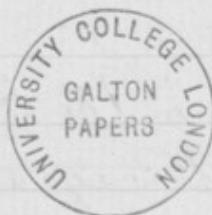
B (5).



I have a distinct image up to
70 (as diagram) but no further.
The letters are written but
always in red ink.

XIII

Yes. I could imagine 2 parts together but no more.



6

B

f. 6r

1] Fairly clear Yes.

2] There is generally one object a little more defined than the rest. ✓ No.

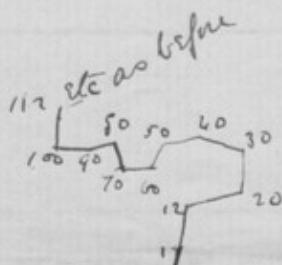
3) Distant



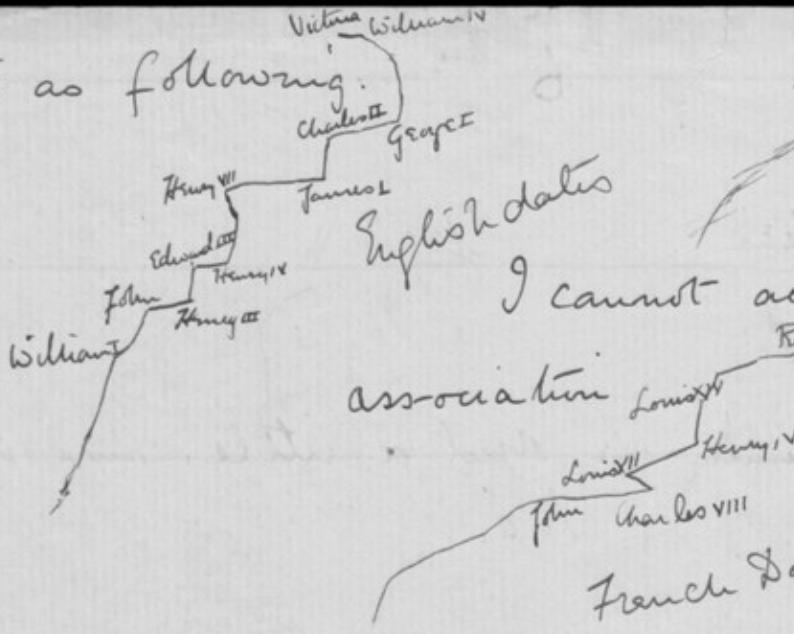
(5) At a little distance in front of me situated in the air, and in distant scenes, I should think corresponding to the reality. No.

(9) In a mental picture there always seems to be some very thin substance through which you look. No certainly not.

(10) Yes. Numerals always come in the following order



Dates as following:



13.

I can just go over a time in my ~~head~~ head but no more.

f 6v

April 16.th 1880.

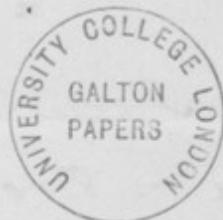
B

f. 7r

VII.

- I. It is very clear, and is as bright as it actually was. Every thing occurs most distinctly.
- II. I can imagine every thing at once, but can see one thing a great deal more clearly by thinking more on that particular object.

III. Yes.



- IV. By shutting my eyes I can distinctly see the picture I am thinking of. But by looking at a piece of paper, I can only see a hazy picture.

In saying anything that I have learned by heart, I always see the page of the book, or whatever it may be, and almost read off it.

XIX. Often when lying awake in the early morning, I have caught myself talking as if anyone was in the room, and have so watched a certain place for a considerable time, - seeing on it a figure that I know or have been constantly with a short time before.

X. I can seldom see a date or numeral. one or two always occur in connection with something that made a great impression upon me.

XII. I can carry music very clearly, & often think I hear a faint sound of anything that I have scarcely heard, but it seems very distant, and keeps ceasing

8

B

F. 8

1) The image is fairly clear.

No.

2) yes. O

3) yes.

5) Within the head.

No.

9) no difference.

No

10) I can see them in printed figures, but
they all appear in the same place

13) I can mentally recall music & can also
imagine it both in treble & bass.

(9). B

f. 9

- (1) The image is fairly clear. The brightness is comparable to a slight degree to true scene. It being light on the places which I noticed most & which were then lighted up, but it is dark in the places not noticed & also in the corners of the room,
- (2) All objects most noticed are ~~pretty~~ clear.
- (3) Not very distinct.
- (4) ~~At~~ In the head. No.
- (5) No.
10. Numerals are in printed figures & are dimly associated with light & darkness.
- (11) Yes. & can also imagine it.



B

No 10 f. 10r

1. The image of my breakfast is perfectly clear
Its brightness is about the same as the real image
would be on a dull foggy day.

2) I see one ^{object} point only distinctly at one time
just as I do when looking at a real image;
that which I see most distinctly is always
brighter in colour or rather seems to have
more light shining upon it than the
other less distinct objects.

3) Everything is distinct except the toast
directly I think of that, the vision fades and
I see a piece of paper covered with various
shades of dark brown.

4) The mental image appears entirely
where I choose to put it except in the
eyeball.

5) The only difference is, that to see a ^{particular object} thing
in the vision clearly ^{I have} to look as it were separately
then get it and loose it again together with whole vision.

10.) I have no association of any sort.

11.) I can mentally record music just as well as when I hum it.

Note. I have mistaken a sound for reality under the following circumstances

Several days ago I was sitting with the boys of my house at evening preparation one boy was returning to his place and was in the act of jumping from the table onto the form when I heard in his direction give a sharp cry that would be distinctly audible over the room but as no attention was called to it I asked my neighbours if he had heard neither he nor any one had.

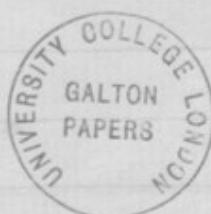


B

f. 11c

11.

1. Fairly clear: not so bright as the actual scene.
2. All pretty well defined at same time.
3. Some are quite distinct and others rather dim.
4. 5. Just in front of my eyes.
9. The only difference that I perceive is that the real scene is more distinct & clear than the mental image.
No.
10. I see my figures as I write them myself; dates as I saw them really in book or otherwise.
13. I can recall music perfectly well in my mind.



No 12. B

f. 121

1. The image is fairly clear. I cannot see everything at once but as I think of them they come clearly before me.
2. The objects are not all defined at the ~~same~~ time. The place of sharpest definitions is more contracted than in a real scene.
3. The colours are quite distinct & natural.
5. Far off in the head. I cannot project an image on a piece of paper.
6. I do not see the mental picture clearly & it keeps changing. No, never.
10. No.
13. I can recall any music that I have liked & I can imagine 2 parts.



13. B

p. 13r

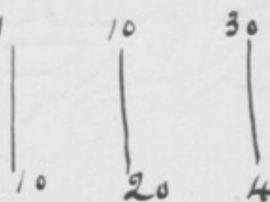
1. very fairly clear: but the brightness is not at all comparable to that of the actual scene, the brightness being greatest in front of me.
2. The place of sharpest definition is one moment more contracted than at another, but not so much as in real scene.
3. Yes - quite.
4. at a distance corresponding to reality.
No, not at all.
5. Only in that it is not so clear.
Only in this one case: if I have been thinking steadily about some one for some time, and directly afterwards if I saw somebody close to me I should most probably think it was the object of my thoughts and address him or her as such.

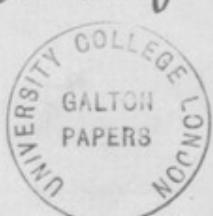


10. No, except than in adding and generally, ~~not always~~ in subtracting I always fill up the ten first, and then add on ~~the~~ other figures. Thus if I were to have to add up seven and 6, I should say 7 and 3 = 10, and then add on 3 more.

I cannot account for the reason except that it was first advised when I was taught to add etc.

13. Yes sometimes however much more than at other times chiefly for whistling: not however able to imagine (it imagine) composing) it.

1. Fairly clear. No.
 2. The place of sharpest definition at a particular moment is more contracted than in a real scene.
 3. No.
 5. In front of the eyes and at the right distance
 9. In a real scene the light always seems stronger than in a mental picture
 10. The numerals seem to come to me by 10s in straight lines thus  and so on until get to 1000 and so on until they get large
- This seems to have originated in learning the numbers by 10s at a time especially the multiplication tables, being printed figures.
13. The position of movements of the performers of the music usually recall the tune.



N^o XV. B

F. 15r
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GILTON
PAPERS

- i. I can call up to my mind the picture of the breakfast table in every detail, but seem to see every thing thro' a darkened pane of glass. - No, certainly not.
- ii. I see just the same number of people, plates, etc the whole time; provided of course that I do not change my ^{idea of the scene} view ~~paper~~ to any great degree.
- iii. Every thing is represented with the same colour on it, as in the actual reality.
- iv. Exactly in the same place as when I saw them -

There is no power of drawing a scene on paper as if I saw the lines of it on the paper to start with; but I could easily draw what in my mind is ^a distinct picture of what happened, from memory.

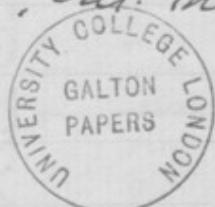
9. No vivid mental picture has ever appeared to me which contains any large degree of light or brightness. Every thing I picture is quite black, so is the background. In the light, however, things are much clearer. - No -
10. My figures go off in a perfectly straight line from about a $\frac{1}{2}$ d in front of me. They are always present as written numbers. 1 is quite clear & so is every thing up to 100, then they begin to fade at about 125. All multiples of 10 are particularly prominent, especially 10 itself, 100 & all the other multiples of 100. My idea is that I began to learn 1, 2, 3 first & therefore they are most nearly associated with me. They are never coloured.
-
- 10 20 30 40 50 60 70 80 90 100
13. Yes, for doing both; & also humming in chords

16

B (16)

f. 16

- 1). The image is fairly clear but much fainter & not nearly so clear in outline.
- 2). No, the objects on one part of the table such as the tea-things are pretty well defined at one time. ~~No~~ Yes it is.
- 3). The colours quite distinct & the same colour as the realities.
- 4). At a distance corresponding to reality I cannot project ~~an~~ image on paper.
- 5). The mental scene seems to me to be much smaller than reality. No
- 6). Numerals go in a vertical line like this, the divisions of it after ten being into small spaces representing 10 each. I have no mental image above 100. Dates generally appear in the size of figures as printed in newspapers &c 4, 3, 2 &c.
- 7). I can recall music, but not ~~imagine~~ mentally.



17.)

B

F 175

1. The image seems fairly clear & is quite as bright as the actual scene.
2. The objects are fairly defined but the objects in the centre of the table (like an imaginary line drawn up the centre) seems most clearly defined.
3. Yes.
5. The image appears at its natural distance off.
No.
9. The picture seems much brighter & clearer in the dark than in the light. In fact it seems as if the darkness was a black cloth & the picture placed on it.
No.
10. The figures go in a straight line up to 100 & then I put the 100 to one side & count up again along this line till I get to another 100 & then I make a column of 100's & so on — Thus



500
400
300
200
100

1 10 20 30 40 50 60 70 80 90 100

X

The figures appear printed in plain letters.

f. 17v

13. Can recall music & see the notes imagined on paper. Can recall music sung in parts & imagine I am singing it.

N^o. 18. B

t. 18r

1. To me the picture seems quite clear, and the brightness is equal to the real scene.
2. I cannot see the whole scene at the same instant, ^{directly,} but I see one thing at once & can turn my eye mentally to another object very quickly, so that I soon get the whole scene before my mind.
3. All the colors seem depicted quite distinctly.
4. The mental images seem to me to be situated in the natural position.
I cannot project an image on a piece of paper.



9.

No: I have never mistaken a mental image for a reality when in health & wide awake.

10.

I have no peculiar mental imaginary for dates or numerals.

13.

I can always recall music in my mind instantly, if it is a piece that I know, and I can imagine some music too. Any hymn or chant I can recall in my mind in 2 parts (treble & alto), & a few notes of a third part (tenor) here and there, but as a rule I only recall 2 parts at a time.

B

19.



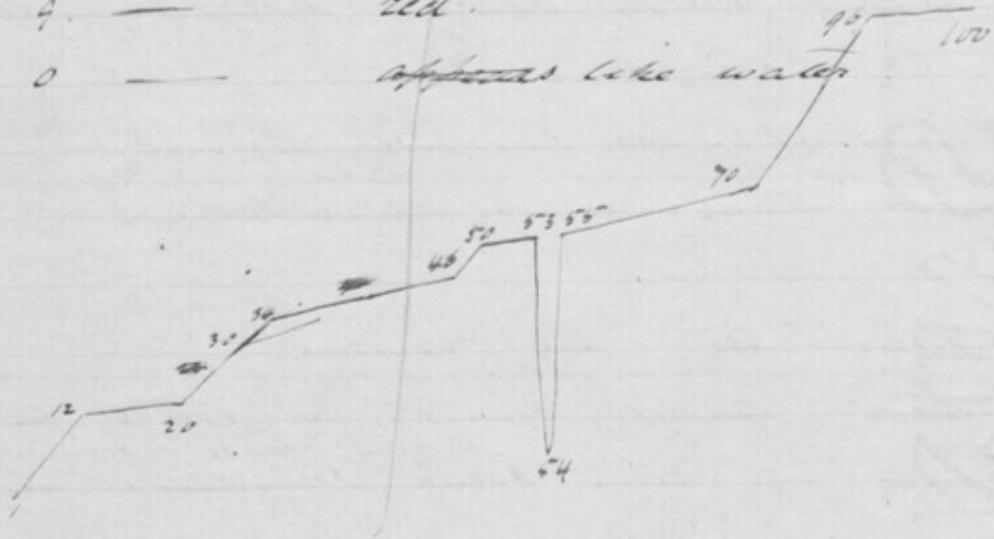
f. 19r

1. If I only think of one part at a time I can see it tolerably clearly
2. I cannot see much of the scene without thinking hard about it. I see the plate of butter most distinctly.
The mental vision always appears darker than the real scene
3. The point of sharpest definition is smaller than in the real scene
4. The colours are all natural.
5. The mental image seems a little further off than the real scene. ^{myself, sometimes even} sometimes I imagine I cannot project an image on paper
6. In the dark the mental image seems much the same as in the light
I have never mistaken a mental image for a reality when in good health and awake.

B (19)

F 19v

10. 1 appears black
 2 — white
 3 — white
 4 — very dark blue
 5 — bluish iron colour
 6 — orange
 7 — yellow
 8 — red.
 9. — red.
 0 — appears like water



13. I can go through a tune and hear it perfectly in my head.

seem to



XX

B

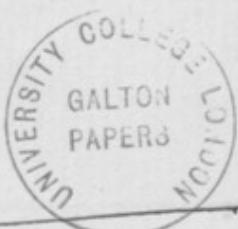
1. The image is often ^{duller}.
The scene is rather ^{duller} than that of actual life.
2. I see one place much more clearly than all the rest.
3. The colours that I see are not very distinct or natural.
4. The image that I see is within the eyeball.
I cannot project an image on a piece of paper.
5. In a real scene I can see a great deal more at a time than in a mental image.
No.
6. If I think of any number as one printed
I can see it in my ^{as} mental vision as printed.
If written, as written.

13. Yes.

21. B

f. 21

1. I think much about it is fairly bright but if I just give it a thought it is dim.
No it is dimmer.



2) It is more ~~conta~~ about the same as in real scene.

3) Fairly distinct.

5(a) Close almost within the eyeball.

5(b). I think I ~~can~~ but my image will be very indistinct as my idea is indistinct.

9. Rather indistinct.

No.

No

13. No.

B

F. 224

22.

1. The image is as if the room was pretty well darkened.

No.

2. Much the same as ~~with the natural eye~~ if you were looking at anything with the bodily eye.

3. They come pretty clear when they are thought of separately.

5. Generally at a distance corresponding to reality.



9. I do not remember any difference, though it is easier, I think, to bring up a picture when in the dark.

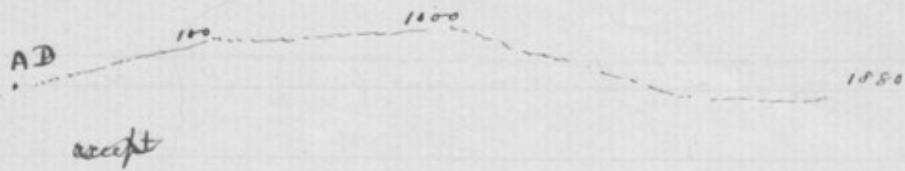
No, never.

10.

✓ 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
21, 22, 23, 24, 25, 26, 27, 28 29, 30 31

I cannot really describe on paper the picture, though I can always call it up: it is something after the above fashion: after every 10 except the first 10 itself there is a jump down to a lower plane which ascends steadily (except a little more sudden rise) at till the next 10.
in dates there arrangement is different except & in years B.C.

~~in years A.D.~~



~~in fact the arrangements between each 100 resemble those of my notation figure except that I suppose myself in dates to stand at the nearest date instead of one as in numbers or else to look at them in a birds eye view~~

13. I can groover a tune in my head after once hearing it
I can only call up the bars and pages of a few tunes soon after
looking at them.

No 23

B

- 1 The image is very clear. The brightness of the knives & glaze on the plates, but the colour of the other things which are duller are not so clear. The intense colours retain their original brightness.
- 2 Those sitting immediately near me & those to whom I spoke to are well defined. There are moments when I get up or move, ~~that~~ that are much more distinct from others. Other things which I know I did I cannot recollect so vividly.
- 3 The china, white of bread, eggs & knives are all clear, but such things as the crust of bread, tea, mustard pot & salt are quite ~~undistinguishable~~ undistinct.
- 4 At their natural distance. No
- 5 The real scene is always more distinct. An image in the dark called up in the dark is in the dark. Never figures. I have never mistaken figures but often I see flashes of light, always on the right side, & I always feel confident as if of having seen lightning. This is always in the daytime & perfect health.

10 Dates, numerals, etc are always associated with the place in the page where they occur, & with a few exceptions, if I forget the place I forget the date or number.

In learning repetition the tops of pages & divisions of sections etc are always most clear

Balts etc ^{are} always perfectly clear & ~~memorable~~
~~to remember~~

I have no diagram of numerals



13 I am often

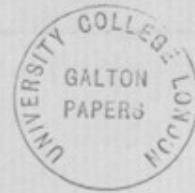
I often know a tune perfectly well in my head, but am perfectly incompetent of producing it.

After having heard a tune, though having taken no trouble to learn it & after a few weeks I find myself humminig it.

Two things are most distinctly ~~most~~ marked in the tournament in Sir Walter Scott's novel of Ivanhoe & the gladiatorial fight in the last Days of Pompeii there are peculiarity espe very distinct in every respect.

Image is dim except in the one part I think of.
The brightness is not comparable to that in the actual scene

2. The Place of the sharpest definition is confined to the spot where I concentrate my attention
3. Colours are only distinct & defined on the spot which I am thinking of
5. Images are between the eyes just behind the bone. I can project no image on paper
9. Attended at mental picture I can only see part off at a time. A real picture I can see the whole of at once. I have never mistaken a mental picture for a reality
10. Figures always appear in white on a black ground. I always appears with & probably because I have always lived in the year 1880 eighteen hundred & something. I have no other mental imagery except this. Figures are always printed
13. None



No 25. B

1. Image dull. Nobody's face clear. Eatables not at all clear. Perspective of table exaggerated. Can picture my own plate.

Image dim. No. D

2. Objects that were near me pretty well defined, others never clear.

3. Colours dim.

4. ~~Imaginary pictures~~

5. Closely in front of eyes. No.

- Q. Don't know. & No.

10. No.

13. Can recall music. no imagination of it. only one part.



1. The image is fairly clear and the brightness exactly the same.
2. ✓ I can see things in front and behind me.
✓ It is not more contracted than it is in the real scene. Sometimes when I do something, I fancy I have done exactly the same thing a long time before but I can't remember when.
- 3 Yes perfectly.
5. At the same distance as reality.
I can't project an image upon a piece of paper.
9. It is not quite so clear and I can see things behind my back and can see myself.
13. I can think a tune to myself. ~~it is not~~ not out loud.



27

B

(27)

1

The image is fairly clear but not so its
brightness is not to be compared to the actual scene.

2

all the objects are pretty well defined O

3

They are not distinct

5



at a distance corresponding to reality

9 The mental picture in the dark is very much more vivid than one in the light but no second as a real scene. Have never mistaken a mental image for a real one.

10 No

13 no aptitude



No. 28.



B

1. The image is perfectly clear. I can see every feature on every one's face, every thing on the table with great clearness. If I was asked to draw a picture of my breakfast table, I should begin by recalling in my mind a mental picture, and then constantly refer back for each object. The light is quite as bright as in reality.
2. All the objects do not come into the picture at once, but are seen about as much as in a real scene.
3. Every colour is exactly the same as in real vision.
4. I can project an image on to anything, but the longer I keep the fainter it gets. and I don't think I could keep it long enough to trace it.
5. No difference. I have often thought things hanging up such as dresing gowns and cloaks &c were the garments of real persons in them.
6. No.
7. Yes. I can fancy sometimes that I have heard a clock at a certain place strike when I have been 100 miles off.

29.

10. Of numbers - 2 is at the back of my head, right, and nearly on the top, and on the left side. 1 is a little lower down coming round towards my left ear. 1, 2, 3, 4, 5, 6, are at about equal distances from each other on a line going round the inside of my skull from ~~and~~ a little above and behind my left ear to a little above & behind my right ear.

At ~~7~~ after 6 the line turns to the left and goes ~~over~~ my head.



The other numbers are all over the top of my head. 1432 is ~~over my left ear~~ rather in front of the ~~hole~~ of my ear. 1480 is over my left eye. 4040 is on the top of my head not very far back.

In Arithmetic and Algebra the front third of the top of my head gets tired & aches; in Euclid the middle of the top. I cannot account for these notions.

1. The image has either ~~with~~ little light or else ~~with~~ unnatural brightness. The same part of the table changes in brightness.
2. I can see my tea as I lift it up, but I cannot see my hand in the least. I cannot anything unless I look specially at it, which is not the case with my ^{real} eyes.
5. A landscape is outside my head in front of my eyes just a little way off. all other things are inside at the back of my head.
I can project an image on a piece of paper.



B

30.

1. The image is very fairly clear. Its brightness is like that of the actual scene.
2. Two or three objects are pretty well defined at the same time, ~~but~~ not more. ~~no.~~
3. The colours are quite distinct and natural.
4. Sometimes in the head, sometimes at a distance corresponding to reality, but not within the eyeball.
5. The only difference is that it is not quite so bright.
~~no.~~
10. ~~no.~~
13. ~~no.~~



B.

I.

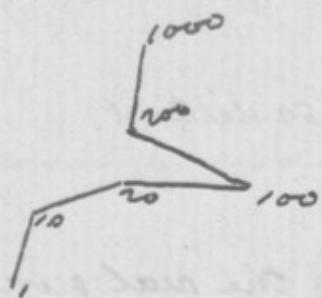
C

F. 1r



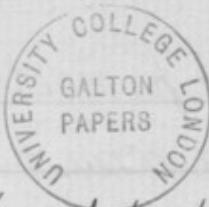
- 1). (i) Fairly clear.
(ii) Nearly, but not quite so distinct.
- 2). More contracted than in the real scene if I want to see them plainly.
- 3). They are all distinct after a little thought and are natural.
- 4). (i) Mental images seem to be formed at a distance, and generally seem to be where they really were.
(ii) No.
- 5). A very vivid mental picture very soon vanishes, and some part seems to have a mist over it when first seen.
I have never mistaken a mental image for reality (that I know of).
- 6). Numerals are associated with a figure:
but dates seem always to be printed on paper

but no particular figure, and all numbers
seem to be black never any other colour.



C 1

131. sometimes a little.



F. 21c

C

II
= =

(1)

The image of my breakfast is quite clear, I can remember where everything ~~stands~~ stood on the table, and what they looked like, but still I don't think it's brighter than my memory of it is as bright as the actual scene.

(2)

The objects are not defined at the same time, but I think of them one at a time, also if I am thinking of anything as a map for instance, I can only imagine ~~in~~ ^{the} ~~at~~ ^{on} a table.

(3)

The colours of the china is not very clear, but ~~the other~~ ^{colours} things the appearance of the other things as toast, bread crust mustard etc is quite natural.

(4)

My mental images appear sometimes within the eye-ball sometimes at a distance corresponding to reality. I generally find if I have a mental image of something moving or at a long distance off, I see it at a distance corresponding to reality, but if it is something stationary or very near, I see it in my head or eye-ball.

C 2.

f. 2v

I can find it very hard to project an image on a piece of paper, but if I think for some time and look very hard at the paper I sometimes can

(9)

I think of a picture in the dark, just the same as it really was as for instance in the dark I can see the fellows coming in at the mile just the same as it really was

(10)

If I think of numbers it is ~~not~~ in a straight line ~~as~~ ^{5 10} but darks I always think of as you see them in a book that is in columns

(13)

I can often think of a tune in my head exactly as it was, without humming it

C.

f. 3r

3.

F

1. Fairly clear but not equal to the actual scene.
2. Certain things stand out more clearly and defined than others.
3. The colours are exactly as they really were at the meal.
4. Mental images appear more like somewhere within the head.
5. Numerals and letters always appear to be written and in my own writing so I suppose that would explain why they seem written.
13. I am often hearing times in my head some which I know and some made up on the moment. The times are quite in my head ~~so~~ shake no sound or breathing.



C

No. 4

1. The image is fairly clear. Yes.
2. All the objects are fairly well defined.
3. Yes.
4. At a distance corresponds to reality.
~~No.~~

9. The mental image is not quite so distinct as the reality.

~~No.~~

10. No.

11. Yes.

~~—~~



C

5.

1. It is fairly clear No.
2. ✗ The place of sharpest definition is less than the real scene.
3. Yes, quite.
4. I don't know. | somewhere in the head.
9. It looks smaller & not so distinct.
10. ✗ Written figures at 12.
13. Yes



C No 6.

f. 6

Questions.

I.

Fairly clear. Less bright.

II.

All objects are pretty well defined.

III.

Yes, but the colours are not all distinct.

V.

At a distance corresponding to reality.

~~No.~~ No.

IX.

It does not look so distinct.

No.

X.

No.



X

~~My numbers go~~ —
No, I cannot.

XII.

I can think of a tune without humming it out loud, & can imagine a little.



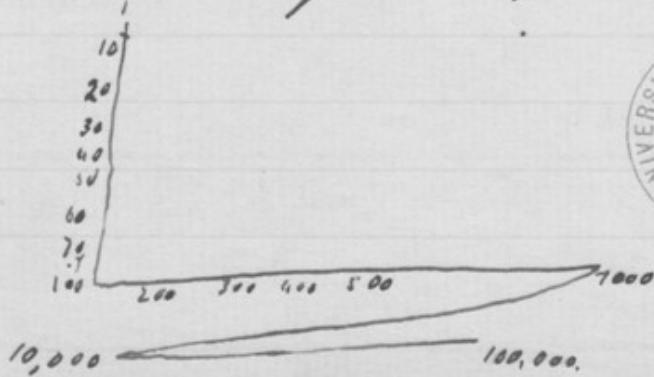
d

7.

" The image of the break-fast table is fairly clear
 and its brightness is ~~com~~^{but} hardly comparable with
 the actual scene.

- 2) The objects are not all defined at the same time
 but singly and the place of sharpest definition is
 decidedly more contracted than in the real scene.
- 3) The colours of the more prominent things & on the
 table are distinct, as the white table cloth + yellow
 mustard.
- 4) Mental images appear to be situated at a
 distance corresponding to reality. I cannot project an
 image on a piece of paper.
- 5) Mental images in the dark, always appear
 of a light colour in sharp contrast to the darkness.
 There is nothing striking about the ~~figures~~ image
 by which you ^{can't} tell it was a reality.
- 6) Numerals always take a diagram of the following
 shape

X



C

No 8

1) Fairly clear, yes

2) All the objects are pretty well defined at the same time

3) Yes

4) Just in front of the eyes, No.5) Not so bright, &c., ~~No~~ but quite as distinct, No6) Dates numbers are always in a continual straight line ~~no vertical~~
I cannot account for it as I have always had the same feeling7) Have some aptitude for mentally recalling music & for memory
of

— " —



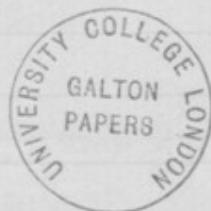
- 9.
- d
- F.9
1. Very clear. yes.
 2. All the objects are not well defined at the same time but separately.
~~yes~~ The place of sharpest definition is more contracted.
 3. Yes
 4. Inside the eyelid. No.
 5. A vivid mental picture is very brightly coloured & not in the natural colours. No.
 6. In a cupboard. Printed
~~No~~. ~~Written~~ Figures
 7. Yes.
-



C

X

- 1.) The image is fairly clear. The brightness of it is less than that of the actual scene.
- 2.) It appears contracted a very little.
- 3.) The colours of everything on the table are quite clear but they seem to be smaller than they actually are.
- 4.) A mental image appears behind the eyes.
- 5.) The difference between a vivid mental picture called up in the dark and a real scene is that the first appears much smaller than the actual scene.
- 6.) All numerals and dates appear in a straight line and all black ~~which~~ and written in a horizontal line.
- 7.) I can imagine music mentally without making any noise.

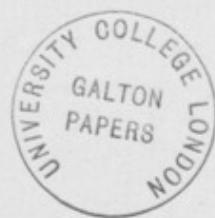


XI

C.

f. 11

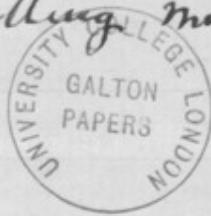
- I. The image is very dim. No.
- II. All the objects are defined at the same time.
- III The colours are very dim.
- IV Images appear to be situated within the head.
No.
- V No.
- VI I can recall perfectly a tune without humminig it.



C

No. 12.

- I. The image is fairly clear
Its brightness is not comparable to that of
the actual scene.
- II. The objects are pretty well defined
at the same time.
- III. The colours are quite distinct &
natural.
- IV. Within the head I can project an image
on a piece of paper.
- V. A very vivid mental picture called
up in the dark would appear to be
the darkest.
- VI. No.
- VII. Yes. from mentally recalling music &
for imaging it.



No 13.

C

f. 13

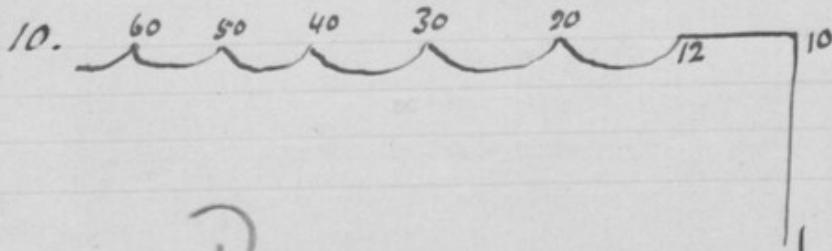
- 1/ The image is rather dim, and its brightness is not comparable to that of the real scene
- 2/ The objects are defined pretty equally at the same time.
- 3/ The colors are natural
- 4) The image appears to be situated at a distance corresponding to reality.
~~I cannot project an image on a piece of paper. I find it very hard to call up a mental image at all, although they sometimes rise before my eyes without any apparent exertion~~
- (Q) No
- 13) No



No. 14.

C

1. The image is certainly fairly clear, but its brightness does not seem comparable with the actual scene.
2. The objects can all be recalled pretty distinctly, and the place of sharpest definition does not seem at any moment more contracted than in the real scene.
3. Yes.
5. Mental images appear to be at a distance corresponding to reality.
Can project no image on paper.
9. The place and objects in a mental picture called up in the dark seem to be larger altogether, for instance take a room, it seems to be loftier & broader and the objects in it taller.
13. Can recall on music & the scene and imagine I can hear it.



C.

f. 144v

7

I

- (1) the image is clear, but a little dimmer in colour,
- (2) the objects are all defined at the same time, & it is like what it is in the real scene
- (3) I can see them all of the colour but cannot tell what the devices on the cups and plates.
- (4) the image appears to be situated before my eyes, you not able to project an image upon paper
- (5) the mental picture is quite a different coloured way in object.
No, I have never mistaken an image for reality
- (6) the Dales appear to be written in front of my eyes, & they are not associated with mental imagery
- (7) No,



Z

4

II 2

D

1. It is fairly clear. Yes.
2. I can only see a little clearly at the same time. Yes it is more contracted than the real scene.
3. Yes.
4. Just before the eyes. No.
5. An image call up in the dark is not so bright and clear as a real scene. No.
6. No. I always see them printed.
7. No.



D

B

1. Dem in most respects | It is rather as if there was
a fog hanging over it.
2. I think of things more clearly as I look upon
them & only as I seem to move my eye up &
down.
3. Yes quite clear.
4. Mental images seem to be in my head & I
try to draw my eyes to look back. No.
5. It comes more suddenly & leaves me so
in the dark. No never.
6. I can never remember dates except one or two
which I cannot account for.
7. I can both recall & imagine it. My
recalling more is almost painful as if once I
get a tune into my head it will go on for
hours without my being able to get rid
of it.

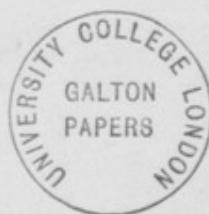


(4.)

D

F.4

- (1). Fairly clear but not quite equal to the actual scene.
- (2). Yes. Not so much ~~as~~ in the actual Scene.
- (3). No.
- (6). At a distance corresponding to reality or perhaps a very little farther off. Yes.
- (9) It seems smaller. No.
- (10). Numerals always appear in a straight line. no particular place for dates, etc.
- (13). Can read music mentally very rapidly. You can imagine it.





F. 5r

5

D

1)

It is fairly clear. But the same breakfast would perhaps account for that, as I do not remember what there is on the table nearly so well when breakfasting in a strange house—
I see them (the things on the table) with fair brightness but have to think of each object individually to remember the lines or devices on plates or cups.

2) In looking at a large scale (a wall for instance covered with pictures) I see them all, but unless looking at each individually I do not understand them at once. (This

*is in my mind's eye
not the actual scene*

3)

I can recall the place of the colour, but sometimes blue is changed for red and vice versa. So when drinking out of cups with a red rim, afterward I can see the rim in the right place but the colour changed. However this is not always the case.

4) As a rule in the same place where they were, and I generally see myself either standing or sitting in the same place as I had

been when looking at them. For instance so
recall "A road to ruin" in the Royal Academy
I have first so think of the objects round
(the policemen crowd etc) especially myself and
then I can see all the five pictures following
one another with perfect clearness.

9) Often they seem precisely the same, and
if I allow my mind to wander on the scene
when going to sleep, I dream the whole
thing over again with perfectly clearness every
movement of animals and myself and company
coming back quite clearly, although not being
able to remember them when awake
with the same clearness. (No

10) In reading a table of dates or history
where dates occur often - if questioned either
by another person (or by myself) I remember
by them seeing them as they were / written or printed
in as nearly as possible the place where they
occur in the page a book where I saw them
This way of remembering does not, as a rule, last
for more than a week, and for remembering dates

D

f.6

a longer time I use a different method although
I cannot explain it. I rather think I do ^{it} by a
diagram but it is a bad one, as I remember
figures very badly.

13)

Yes, for a short time after I have heard them
or a tune that I have liked very much
at the same.



D

No 6.

1. The image is fairly clear. There is not as much light as in the actual scene.—
2. I see less at the same time than I do in the ~~actual~~ scene at the same time.—
3. I see the colors quite distinct and natural.
5. Mental images appear to be situated at a distance corresponding to reality generally but sometimes when I think of a scene I ~~see~~ imagine it & but when I actually see the place afterwards I find my ~~off~~ image was slightly wrong.—
I cannot project an image upon a piece of paper.
9. None. I have never mistaken a mental image for a reality when in health and wide awake.
10. ~~No~~. I can see either written or printed numbers.
13. Yes a little.



D

F. 8

10. 7.

1. It is fairly clear and nearly as bright
2. 
3. I see the colours just as if they ~~were~~ ^{are} before me. and quite natural.
4. Sometimes when I ~~think about~~ a thing steadily I see an image. I can ^{think about} ~~see~~ an image with my eyes shut. While I am thinking about a thing very particular the image come quite clearly before me. Yes.
5. 
6. I can numbers of all kinds ~~and letters~~
~~and symbols~~
7. I can go through music in my mind



(8)

(8)

D

F. 9

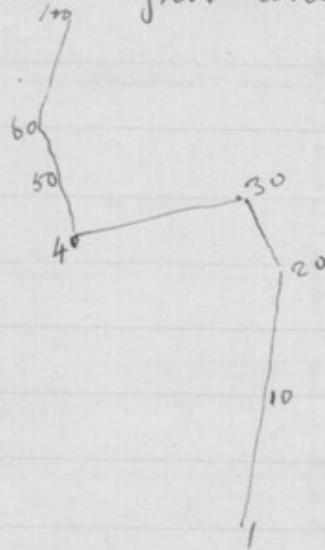
- (1) The image is dim. Its brightness cannot be compared etc.
- (2) The place of sharpest definition is more contracted at one moment
- (3) The colours are perfectly distinct
- (4) At a short distance in front of the eyes
do.
- (5) A mental picture seems of less colour and the shades somewhat darkened. No numerals and dates appear neither written or printed but merely as objects, separately, and are remembered merely by the sum which the addition of a certain no of digits bears to the rest.
- (6) I can mentally recall music but no further



D

q.

1. The image is just as distinct and bright as in the real scene.
2. I can only see distinctly the part of the table or the person I am thinking of.
3. Yes.
5. Mental images are situated at a distance corresponding to reality. ✓
Mental images are the same as in reality, only some parts are dim.
9. ~~Mental images appear to be smaller & clearer than visual~~
~~sense~~
10. Numerals are associated in my mind with a diagram, the figures are written and not coloured at all, the only difference being that 1 is much lighter and more distinct than a hundred.



IX



13. I can recall music but cannot imagine it.

D

10

1. Perfectly clear and light like the actual scene

2. Yes everything O

3 Quite natural.

5. It is in front / I don't have to move my eyes. (Yes.)

9. It is much more ^{convincing} with dark. Is never.

10. They are in both in writing & presenting

11 I have for recalling it



D

- 1 I can see some parts quite as clearly as the actual picture other parts are dimmer & not so clearly defined
- 2 The place of sharpest definition is more contracted than it is in the real scene.
- 3) Yes the colours are quite distinct & natural
- 4) I can place a mental image wherever I like outside the head either in the air or upon any substance.
I do not think I can project an image
- 5 None, except the image is darker. I have never taken a mental image for a reality
- 6 No
- 7 I can recall music after I have heard it but not directly after in a day or two is about the time



12.

(12)

D

F. 13

I Perfectly clear, Yes almost as clear as it
is actually.

II. Yes everything.

III. Yes perfectly so.



V. Just in front. I have to turn my eye
upwards a little. Yes.

IX. It is much more sudden on the dark than in a
cheetal. Imag. in the Day Time.. clever.

X. Whenever I know a Date. I always.
think of the Event of it. My numbers
appear. in printing, but not in writing
at all.

XII. Yes. & cannot forget it for some time -
etc not in my Head, but I could on the Piano.

-

(13)

f. 14

D

13.

1. The image is perfectly clear. I can see it as bright as if I was looking at it now.
2. There is always some one place which seems clearer than others.
3. No. I can hardly call up any of the colours.
5. I seem to see the objects at a distance corresponding to reality.
9. While sitting in the dark, I often imagine that I can see arms and legs and a head, and ~~—~~ added on to some shadow thrown on to a wall, giving it the appearance of some shadowy man.
10. I always see figures in my mind as I learnt them on the multiplication-table, i.e. printed, and, when conjuring them up, I always see them in the same order as I learnt them in.
13. I can run through any tune in my head, without making any noise; or I could frame a tune in my head, but would be totally unable to recollect it again after a lapse of time.



14.

(14)

f. 15



7

- I. The image is very dim. No.
- II. All objects are ~~nearly~~, go well defined at the same time as in the real object.
- III. The colours of the things on the table are quite clear and distinct.
- IV. They appear at a distance corresponding to reality.
No!
- V. One called up in the dark is almost imperceptible & not so bright & clear as real scene. No!
- VI. Numerals & have no association; every numeral seems to have a colour of its own, as, 1 = grey, 2 = brown, 3 = white, 4 = black, 5 = blue, 6 = white, 8 = yellow, 9 = red, & c. Each number has a character of its own also, they are always seen printed in their own colours. I cannot account for it.
- VII. I can recall music, but cannot imagine it without having heard it.

D F 16

No 15

11 hot quite as clear

13/ Yes

10/ No

O





- (1). The image is fairly clear, but its brightness is dimmer than the actual.
- (2). The objects are mostly defined clearly & at the same time.
- (3). The colours are quite distinct & natural.
- (5) Mental images appear to be situated just in front of the eyes; & I can easily project an image upon a piece of paper.
- (9) Hardly perceive any difference between a very vivid mental image & the real scene and have sometimes when in health & wake mistake a mental image for a reality.
- (10) Numerals & dates are represented in figures but in no particular position, & associated with any mental imagery.
- (13) Have a great aptitude for mentally recalling music, & also for imagining it.



f. 18

D

17

^{perfectly}

1. The image is perfectly clear and I can see no difference between it and the actual scene
2. all the objects are clearly defined but the image appears much smaller and does not change in size while looking at it
3. The colours of the china and all the other things on the table are exactly the same as the actual scene
4. Mental images of things and places which are some distance off appear smaller in comparison than the images of things which are near; images of things far off seem to appear in the left hand and images of things which are near in the right
5. Mental images called up in the dark appear more dim than ones called up in the light; I have never mistaken a mental for a real image
6. NO
7. I can't recall a time without knowing or seeing it but have no aptitude for engravings it

D

18.

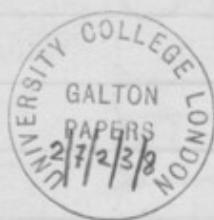
1. Clear. Yes.
2. The place of sharpest definition is more contracted than in a real scene.
3. The colours are quite distinct and natural.
4. At a distance corresponding to reality.
5. The image called up in the dark is not quite clear.
Yes.
6. The printed figures seem to come naturally into my mind, and are not associated with any peculiar mental imagery -
7. I can very easily recall or imagine music.



7

19

1. The image is rather clear, but not quite so bright as the actual scene.
2. The objects are defined at the same time
3. The colours of the objects on the table are not quite so clear as natural.
5. Mental images seem to be situated before the eyes. I cannot project an image on paper
9. The real scene is brighter and lighter than the image. No. I have never mistaken one
10. Numerals and dates seem to be situated on the page of the book from which I have learnt them
13. No



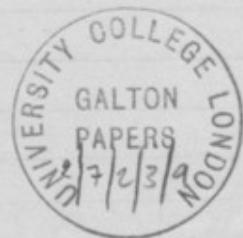
D

I

E

f.1

1. The image is very dim. You can only fix your attention on one or two things (close together) at a time. The rest of things on table appear dimly. Its brightness is not comparable to actual scene.
2. No. Yes.
3. No. The colours are all mixed up.
4. In mist just in front of eyes. Yes. I can imagine an orange or any thing else on a plate at any distance.
5. Picture brought up in dark appears very close and small. No.
10. No.
13. Yes. I can think of a tune, and hum it in thought.



F

2

f. 2r

1. Fairly clear. Yes.
2. Yes. ~~No~~
3. ~~Yes.~~
5. Before the eyes.
8. No.
9. — No.
10. Yes.
13. Yes.



E

3.

E

f.3

1. It is fairly clear, although ~~more~~ ~~and~~ ~~other~~ not nearly so clear as the real scene.
2. It is more contracted.
3. The colors are all the same as reality.
4. A little way in front of the eyes.

No.

5. The mental picture is generally ^{rather} dim and seems as if seen in twilight.

No.

6. When I think of dates they seem to be arranged along a straight line with a break in it. ~~The~~ ^{not numerically} Latest dates are near me and get gradually farther away, dates B.C. being beyond the break. When I think of any particular occurrence I generally see an image of it near the place where the date is. For instance, thinking of the date of a battle, I seem to see immediately the two armies drawn up against each other; and when I think of the date of the Foundation of Rome, I see Romulus & Remus building their wall.

7. When I think of any tune I have heard, I can imagine I hear it again.





F.4

E

4.

1. Rather dim. No, not quite.
 2. They are pretty much all the same some rather less distinct than others.
 3. Some are, China mustard, toast the others etc aren't.
5. At the back of the eye ball ~~posterior~~ not exactly in the head. (Yes a faint one.)
9. I don't remember a very vivid mental picture called up in the dark so I can't say.
I don't think so.
 10. I don't think so I don't see any now.
 11. No.



V.

1.5

E

- 1) Rather dim. No.
2) The objects are pretty well defined
3) Yes quite as distinct as in a real scene.
4) Just in front of the eyes.

Yes

- 5) The mental picture called up in the dark is not nearly so clear and not nearly so well defined.

Never.

- 6) No.

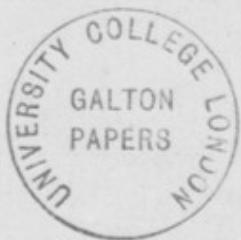
- 7) Yes.



VI E

f.6

" Fairly clear, not quite.



2. Some only, no

3. all the same colour

5. In the head if the eyes are open, if
shut in the eye. No

9. The former is much dimmer.

Yes, when out shooting rabbits have
often seemed to pass when they didn't.

10. I see them for a road as it were
numbers always written, at 12 there
always seems a stop then it goes on again

13. I generally hear a ~~time~~ when by
myself sometimes alone & sometimes
with no sound.

10. Dates in things I know have happened
go back to happen

things from present time

in front.

Right

In dates of battle, etc
Present day 17th 10th

18 century

on this's ~~when~~
withings
between
but clearly

E 7

f. 7

1. Pretty clear but not nearly so clear as it really is
 2. At a certain distance from the eye you can see a thing plainly. You cannot define objects very accurately at the same time.
 3. No, not quite
 4. Within the eyeball. No
 5. In the dark it seems much brighter. No as myself
 - 6) Nearfornally.
- X
- 1 2 3 4 5 6 7 8
~~5~~ ~~6~~ ~~7~~ ~~8~~ ~~9~~ ~~10~~ ~~11~~ ~~12~~ ~~13~~ Red
- 13 Yes



E 8.

f. 8

- 1.) The image is pretty clear but not as clear as the actual thing
- 2.) I cannot take in the whole table at once and I cannot see more than three plates at once and when I try to take in both ends of the table I cannot see anything of the middle. I can see nothing beyond the table but the table itself seems to stand out of the darkness beyond.
- 3.) All the objects are exactly the same colour as they ought to be
- 4.) A visual image appears to me to be at a short distance in front but I don't seem to be able to keep it long or when it is there it seems to move away to the left. I cannot project an image on a piece of paper I do not think
- 5.) I can think of a line all through without making any sound and if I try to make a record to a line I can still retain the real line in my head.



9) Number 9's paper.

E

f. 9

I

It is clear, and the colours are almost as vivid as the natural scene

II

The place of sharpest definition is the thing my mind was most occupied with, this morning it was a couple of poached eggs on a bit of toast.

III

yes

IV

In the back of the head, as if a mirror was put there to reflect the image

IX

more difference. I have never mistaken mental for real images.

X

The numbers seem to me to be printed as in Colenso's arithmetic, because that was what I first learnt out of.

13

It depends upon whether the line is striking or not



~~See Questionnaire~~ 10.

f. 10c

E

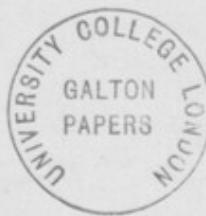
- 1 Fairly clear, not quite
2. It is at one moment more distinct than at another
- 3 Yes
- 4 Within eyeball
- 5 Very nearly the same, no

10. Yes, Cannot explain, when I think of a date, take the battle
of Waterloo, & picture of what it was like comes
into my head.
11. No.

Number come in blocks

(1 10 20 20)

X



17

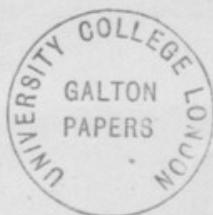
f. 40 v

"

f. 11

E

1. Fairly clear. Yes.
2. It is more contracted
3. Yes.
5. At a distance corresponding to reality. No.
9. None except that the place of sharpest definition is more contracted.
No.
10. No
13. No.



12.

f. 12

E

Show it exactly as it was

1. very clear

2. All clearly defined farther it was

3. yes

5. Within the eye ball or of the forehead
.

9. The real skin is bright red - no.

10. no

13. yes



E /3

f. 13

1) The image is fairly clear, and corresponds to that of the actual image.

2) The objects are fairly ~~clear~~ visible at the same time.

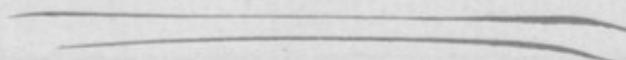
3) The colours of ~~china~~, toast, crust, mustard, and meat are quite distinct, though at some times more defined than at others.

4) Just before the eye.

5) A real ^{image} ~~scene~~ is much more vivid than a mental image which is very dim and not at all defined. No.

6) Not often, but occasionally, the colours when they appear are red.

7) No ^{are}



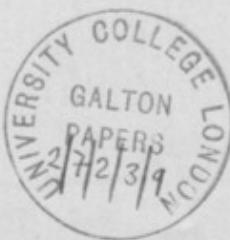
Number. 14.

E

April 20th 1880.

f. 14c

1. The image is fairly clear and the image ^{is} quite comparable in brightness to that of the actual scene.
2. Yes all the objects seem to be pretty well defined.
3. Yes they are quite distinct.
4. The mental images seem to be ^{partly} just in front of the eyes and partly in the head.
5. A real scene ^{seems to be} rather the most vivid. I have never mistaken a mental image for a reality.
6. They seem to be written in a line.
7. Yes I can mentally recall a tune of music that I have, but I cannot imagine the music.



~~SECRET~~

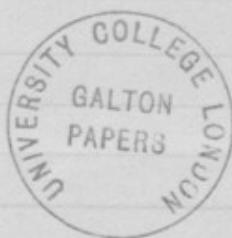
F. 14 v

E

f. 15

15.

1. Fairly clear. No
2. Pretty well defined at the same time.
3. The colours are distinct
4. Natural place. Yes.
5. The Background of a mental picture is misty. No.
6. No.
7. Yes. I always see a piano & follow the tune I am mentally hearing.



16

E

f. 16

I. Fairly clear. Yes.-

II. Yes. No-

III. Yes.-

IV. Within the Head. No.-

V. No difference. No.

VI. No.

VII. No. No



E

f. 17r

(17)

- 1) Rather between the two. No.
- 2) A little to the right on the opposite side seems more contrasted, round it a little round it all is dark, but a light is outside the darkness.
- 3) Yes.
- 5/ Within the head at a distance corresponding to reality.
Yes, pretty well.
- 9) It is not quite so distinct, one part being clear and distinct, but all round it dull and gloomy.
No.
10. Numbers seem to ascend slanting
 $\begin{array}{c} \text{as } \frac{1}{2} \\ \text{or } \frac{1}{3} \\ \text{or } \frac{1}{4} \end{array}$ to 30 when they slant
 $\begin{array}{c} \text{as } \frac{1}{2} \\ \text{or } \frac{1}{3} \\ \text{or } \frac{1}{4} \end{array}$ to 100 when they slope sideways
of them

X

13. A little.



L. 57v

3.

No. I. F ~~W~~

f. 1

1. Clear. Yes.
 2. Pretty well. (Yes.)
 3. Yes.
 5. In their real place. No.
 9. One moves the other does not. Yes often in the night
 10. No.
 13. Yes.
- —



F

2.Question F.

The image is not ~~very~~ clear though not dim, therefore its brightness is not comparable to that of the actual scene.

H.

Yes.

III.

Yes.

In the head.

at a distance corresponding to reality.

2nd part. ~~No.~~ No. IV.

A very ~~dark~~ scene called up in the dark appears almost as well defined as a real one. What Yes.

V.

Yes Painted. Not in colours.

VI.

Yes. certainly.

7



- 1) Finest. About the same.
- 2) They are pretty well defined. • R.D.
- 3) They are quite distinct & natural.
- 4) Some where in the head. ^{in or} about the eyes
- No.
- 5) Those ~~looks~~ ed in the dark look dark
the other proper colour. Liver.

13. Yes.

- 10). They appear similar as if on paper
& without order just as they assume
- known



F F.4

(4)

1. It is faintly clear but its brightness is not so vivid.
2. In the mental scene there is far more white than in the real one.
3. Yes.
4. In the day time in the ~~grottoes~~, but at night about a yard or two off. After looking at a blank wall for some time I can imagine what I am thinking of.
5. The real scene is more lasting while the mental one in the dark is constantly changing. I have often imagined that I saw figures ~~sliding~~ among the trees while walking through a wood at night.
6. If thinking of a number I always imagine it written on paper. But why I don't know.
7. No.



1. The image seems fairly clear, but the brightness is not quite comparable to that of the actual scene.
2. All the objects appear well defined at once, but the place of sharpest definition is best seen, and it appears just as it does in reality.
3. Yes.
4. At a distance corresponding to reality.
I can project an image on a piece of paper a little.
5. The difference seems to me to have not quite the clearness of the natural scene, but at the same time I can see it very clearly. I have never seen a ghost, and if I have fancied that I have, on investigation it has always turned out to be something common & of any common occurrence.
6. Dates a diagram I always call to mind by something in them peculiar or a little out of the common. Colours, I don't call to mind by anything of the kind, but simply by remembering them. Written and printed figures I call up the same as dates, etc.

13. Yes a good deal.



F

f. 6

6.

- 1) It is fairly clear, yes,
- 2) Do I ~~do not~~ ^{do} see one as clearly as if in an actual scene, yes.
- 3) Yes.
- 4) At a distance corresponding to reality.
- 5) One appears in the light the other in the right. No.
- 10) In written figures
- 13) I can remember any pieces I like very much.



April 19th 1860

~~E~~ E.

Doalt mi

1. It is fairly clear. and the brightness is comparable to the real scene.
2. It is more contracted at the place of definition.
3. Yes, by all means.
4. At a distance at which they occur in reality. Yes.
5. That the one called up in the dark only appear at the place of sharpest definition, and the real one you can see all over at once. Yes. Partly.
6. The numerals generally appear printed, and they always seem to grow higher and neater as they get towards a 100 at which point they seem lost, but never obscured or confused.
7. No



F

8

f. 8

1. The image is rather dim & its brightness is not comparable to the actual scene.
2. The objects are pretty well defined but only part of them appear at a time.
3. The colours are quite distinct.
4. Mental images appear to be situated at a distance corresponding to reality. I cannot project an image after paper.
10. Yes written or printed.
13. No.



(9)

F

f. 9

- 1). Very fairly clear, but not quite comparable in brightness to the actual scene.
- 2). The image is very much contracted and only a very small part is visible & distinct at a time.
- 3) Yes, the colours are quite clear & distinct after I have looked at the object for some time.
- 4). The objects appear to be at the same distance as they were when really seen only they seem dim when first looked at, ~~at~~ and get clear after a time.
No.
- 5). There seems to be no difference at all.
No.
10. No.
11. I can recall any piece of music I like & hear it as it was played.

W.H.S.



Q 10 F f. 10r



1. very dim.
The brightness is not to be compared.
2. The part I look at is ^{much} smaller than reality, with a haze of black all round; it is like a small picture.
3. All the colours are very dim.
4. Objects all appear a long way in front of my eyes, I can only keep the image for a very ~~long~~ short time.
5. Pictures in the dark always appear very indistinct, or if it is a room all hung with very dark paper, or if a man with dark complexion.
6. I have never seen anything, which was not really there, when in good health.
7. I can see numbers written but never in my own hand writing especially seven. They always appear to

be on white paper

13. I can always hear a tune. I want, on any instrument
I want but I cannot always hum it

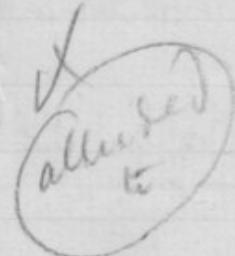
F

Natural Science Lawyer. 11.

1. The image of the breakfast table this morning is very clear. The brightness is quite equal to that of the actual scene.
2. All the objects are pretty nearly all clearly defined though some objects are clearer than others.
The ^{image} ~~object~~ appears as large as the reality, though much dimmer in some parts.
3. The colours are especially distinct in every case.
4. 5. The image appears to be situated a little in front of the eyes. I am not able to keep the image long enough before me to be able to trace it -
6. The difference I perceive between ~~an~~ image ^{caused} confused up in the dark and the reality is that the surrounding scene is deep black with patches of different colours floating about, between the heads, and behind the people at the table -
7. I have never taken ~~an~~ image for a reality when in health, ~~but~~ except when half-expecting the arrival of something unnatural

as in a haunted-house, for instance — numerals and dashes always appear to me in print in a long unending line but always in the same place next in order to the one they rightly follow. 44 always follows 43 and precedes 45 for instance their colour appear as in print on white surface. I cannot account for this, though it has always been the same —

The seasons of the year appear in a circle winter joins spring, spring summer, summer to autumn, and they each have a special colour always the same one, and are subdivided into the months which follow naturally in the different seasons in the circle — I can recall music which I have liked easily and almost at any moment, though now often I am unable to hum the tune

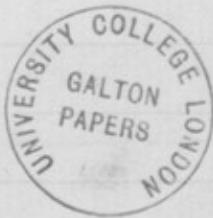


12

A. J. Smith

F

- 1) It is partly clear. No.
- 2) No. you see one thing sometimes more clearly than another.
- 3) Yes.
- 4) In the Head. No
- 5) None. Yes.
- 6) No.
- 7) Yes.



F

13)

13

- 1 Clear. yes. ~~yes~~
- 2 The place of the sharpest definition at any one moment is more contracted than it is in the real scene
- 3 Yes perfectly.
- 4 ~~The picture is not sharp~~ yes
- 5 The colors ^{are} brighter in the horizontal picture
Yes
- 6 No just as a mere sound
- 7 Yes.



7 1000 14

F

f. 145

No. 1. Not very clear.

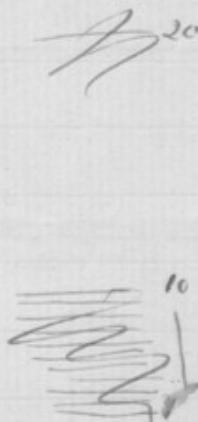
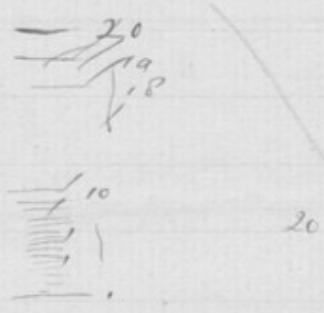
No. 2. Yes

O

No. 3. Just in front of the eye

3. Are all of a gray colour differing in shade in different
articles. Yes I can draw proposal of an map on a piece of
paper.

No. 4. The wings looks more golden and fiery in the dark



5. The numerals from 1-10 seem very close together, from 10-20
they seem wider apart and bigger. From 20-100 the
spaces from 20-30 & 30-40 etc are equal.
From 100-1000, the hundreds divide the
spaces equally and ~~so~~ very
close. After 1000 there is
confusion of ~~paper~~ heights
with ones at the beginning.



3 = seems to have been my favourite number

q = seems to have been a halffull number ~~perh. perhaps because~~
~~divide and subtract.~~
it is so difficult to multiply with it or
long. in the last.

(39)

15.)

F

f. 15

1) The image is rather dim. The brightness cannot be compared with the actual scene.

2) The objects are not well defined.

O

3 Yes.

5 The mental images appear to be at a proper distance and clearly defined

9 The figures in a real scene are ~~not~~ much more clearly defined than in memory one.

10 No

18 I can recall any time past I please in my mind



F 16.

yes!

1) It looks very clear; no! it has quite a different look to the seen around it

Not in a book; but in the open and ^{things} on a table if not standing near are seen mostly at the same time.

- 3.) No they are changed.
- 5.) They are pictured by me in reality at the place where they are? I can produce an image on paper, if it ~~can~~ be drawn
- 9.) No!
- 10.) I always remember dates by what has happened on that date. Or if any great thing has happened on the same day ^{as} anything ~~does~~ has happened to myself or friends
- 13.) Yes! I can easily remember a tune without writing or hearing it.



F

17

- I. It is real - No
- II. All are defined pretty equally. Yes.
- III. Nearly as distinct as the original.
- IV. Just in front of the eyes, rather further off than reality - No.
- V. The real scene appears much lighter than the other No.
- VI. Are connected in my mind with written figures. Cannot account.
- VII. Yes.



F

No 18

1. Fairly clear. No.
 2. The objects are pretty well defined. O
 5. At a distance corresponding to reality.
 3. Yes.
 9. It looks darker. No.
 10. They are associated with printed figures.
 13. Yes.
- ==



F

f. 19r

no. 19.

1. The image is fairly clear, but it is rather fainter than the actual scene, the things are rather hazy.
2. The place where I look seems brighter than most of the other.
3. The colours seem to be more resembling streaks but have some colour in them.
4. When recalling something some time past it appears just about where the real object was, but if I look at a tiny & then shut my eyes it appears just under my eyelids.
5. I can project a ^{mental} image on a piece of paper rather more clearly than in my mind.
6. A picture in the dark is no clearer to me than in the light.
7. (-1 is ^a youth, -2 a young lady) is a companion for 2-4. middle aged man 5. elderly lady. 6 a sort ^{female} governess. 7 - young man of twenty one years. 8 a middle aged lady 9: rather a powerful sort man a magistrate.
13. No.



7.

F

20

1. Yes.

2. No.

3. Yes, perfectly clear.

4. ~~all the place where you happen to be at the moment~~5. ~~all the place where your thoughts happen to be at the moment~~

Yes

9-

10. No.

13. Yes, as long as the music has not happened any long time ago.



F

F

18

21

1. The image of my breakfast is fairly clear its ^{F. 21}
brightness is comparable to reality
2. I have to move my mental eyes a good
deal about.
3. The colours are quite distinct & natural.
5. Neutral images ~~do~~ appear just in front
of the eyeballs.
9. The difference is that in my mental
image I can see only a much
smaller part at a time.
10.
^{No -}
_{No -}
13. I have an aptitude for
mentally realising music



22. Monday.

F. 22

F

April 19th 1880.

1. The image is fairly clear and its brightness is comparable to the actual scene.
3. The different colours seem quite distinct.
5. At a slight distance off.
not very distinctly always.
- q. No difference.
not that I can remember.
10. No.
13. Most decidedly not.



F

(23)

1. The image is fairly clear of the part where I was sitting but dim slightly towards the other end. Very much like the real scene.
2. The objects are rather larger than in the real scene but seem ~~much~~ farther off.
3. The colours look more clear than they really are.
4. They look about ~~5~~ yds off. Yes.
5. None except that the objects look longer in the dark than they really are. No never has I remembered.
6. No.
7. Yes. For instance I can imagine every badly tuned piano I heard played this morning when standing opposite Miss Page's house only I could not recognise the tuner at all.



F

24

1. Done: No.
2. The place of sharpest definition is more contracted than in a real scene
3. They are natural but not very distinct.
5. They seem at a distance corresponding to nature. No.
9. A mental picture seems more distinct. No.
10. Dates & numerals when spoken of appear printed written or written.
13. No.



F

No 25

1. Fairly clear. No.
2. Only some at a time. Yes
3. Yes.
4. Where it is in reality. Yes, distinctly.
5. One you can see through the other you can't.
~~Yes often in the dark~~
10. ~~One~~ Yes, printed.
13. Yes.



F

26.

F. 26

1. The image is pretty clear & comparable with the actual scene.
2. All the objects are well defined at the same time
3. All the colours are clearly defined
4. Mental images appear before my eyes but I couldn't express them on paper.
5. I can't bring up a mental image when I am wide awake.
10. No.
- 13 - No.



F 27.

f. 27

1. The image is fairly clear, but the brightness of it is not comparable to the natural scene
2. The place of sharpest definition is contracted as ordinarily
3. Everything is tolerably clear.
4. Sometimes the images are at a distance corresponding to reality, I can project an image on paper
5. I have never mistaken an image for reality
6. Numerals dates etc. are not associated with images
7. I can mentally recall music



28:

F

- 1: Perfectly clear; No.
- 2: All the objects are pretty well defined at the same time.
- 3: Yes perfectly.
- 5: Within the head? Yes.
- 9: A vivid mental picture is not so clear as a real scene? No?
- 10: No.
- 13: Yes.



19Monday F

1. The image is fairly clear and its brightness is like the scene itself
2. The objects are not very well defined O
3. The colours of dupia & astaghare very clear
4. Images appear at a distance - ~~etc.~~
Mo
5. An image in the dark appears more vivid than in the light
Never
6. Figures and dates appear figures on paper and just as mere sounds sometimes also as characters
7. Not at all



F

No 30

1. Perfectly clear, no
2. The place of sharpest definition is more contracted when you are near than far off.
3. Quite distinct but not quite natural
4. Just in front of the eyes. (Yes.)

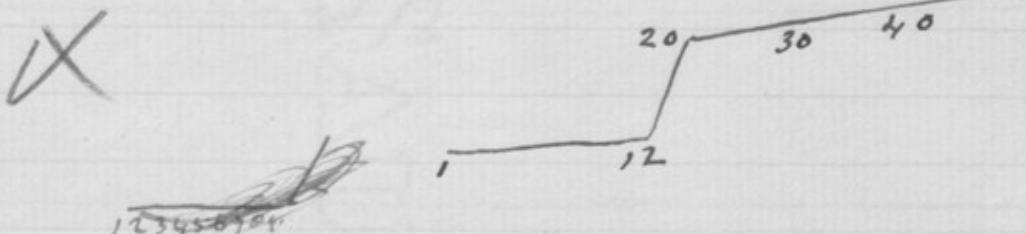
5. No difference. Yes often. w
6. By the shapes of figures.
7. Yes, I never



F (31)

1. Fairly clear. Yes.
2. The objects are pretty well ~~well~~ defined.
- ✓ The objects are not more contracted than in a real scene.
3. Yes.
5. At a distance corresponding to reality.
No.
9. It is slightly duller. No.
10. Diagram of numbers

etc.



B. Yes.



F

32.

- I. Fairly clear, but not comparable to actual scene
II. No, one thing is more clearly seen at one time than another.
III. No
IV. Within the head. Yes.
V. _____ No
VI. No.
VII. No



F

33.

1. It is rather dim. No, not quite
2. Yes. 0
3. Not quite so distinct by but pretty well
4. Just in front of the eyes. No
5. The real scene is much brighter. Yes
6. They are sometimes, but generally printed figures. No
7. Yes Yes



F

34

E.S. Smith

- (1) The picture is not very clear and is not very bright.
- (2) No. Yes.
- (3) Yes.
- (5) at a distance corresponding to reality. No
- (10) No.
- (11) Yes.



F

1. The image is fairly clear, no.

2. No, not very well defined. Yes.

3. None of the colours are at all natural or distinct.

4. At the back of the head. Yes.

5. ~~The one in the dark looks much more dim than the one in the light. No, I have never seen a ghost.~~

6. Every number has a colour in my mind. 1 = white, 2 = gray, 3 = blue, 4 = yellow, 5 = orange, 6 = blue, 7 = green, 8 = red, 9 = dark brown, 10 = yellow, 11 = dark grey, 12 = black

7. No, none at all.



F

36.

- 1) The image is fairly clear? Yes
- 2) ~~Yes~~ I see them as plainly as if they were in front of me
- 3) Yes
- F They are at a place corresponding to reality.
The things which were nearer me are nearest the eyes
- Q The mental image seems to be in the dark if I call it up in the dark. No
- 10) They are in written figures
- 13) I can recall any pieces which I like.



37.

F

p. 37c

1. At times fairly clear and sometimes very dim. No, far from it.
2. The image is ~~not~~ very much contracted; a large part is visible and distinct at the same time.
3. Yes.
4. just as ~~corresponding~~ corresponding in reality.
No.
5. None.
6. Yes.
7. No.
8. Yes.



f. 37v

7.

J.
II

G

1. The image is rather dim; No.
 2. No, very few are defined at the same time; Yes they are much smaller.
 3. No the colours are not quite distinct and natural
 4. The images appear to be situated at a distance corresponding to reality, & I can see ^{an} the image at any place; (Yes.) ✓
 5. The mental picture is not very clear, and I can not see it all at once, Yes often.
 6. The figures appear to be isolated they are not associated in my mind with any peculiar imagery.
 7. Yes.
-



4

2.

G

1. Fairly clear. Yes.
2. The objects are pretty well defined at the same time. No
3. Yes
4. Just in front of the eyes. Yes
5. I can see over so many more things at a time in a mind mental picture. No.
6. Written figures, yellow. ~~10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100~~ After 11 any how
13. Yes.



(3).
I.
Fairly clear.

2.

yes.

(4).
2.

3.

yes.

5.

at a distance.

9.

For a moment only the table can be seen.
(No.)

(10).

So, all answer. See them written.

(13)

Yes.



(4)

G

f. 4

- I. Mainly clear: quite comparable.
II. all the objects are pretty well defined

III Yes.

b. (A) In no particular place. B. Yes.

b. No.

13. Yes. 10. Dates and numbers written



5 ~~B~~

f. 5

G

- 1 If I think of any one particular one without the others it seems clear
- 2 all at once are not very clear
- 3 They are their bright colours
- 4 Either either at the real distance or further

~~5~~

9

10 No

13 Yes



6

G

- 1 Fairly clear. Yes
- 2 The things farther off seem not quite so vivid as those nearer
- 3 Yes
- 4 Within the head. Partly.
- 5 A mental picture seems duller. No
- 6 Numbers & figures seem to go up to 20 & then a stop then up to 30 another stop, 40 & " " " & so on, all in a straight line
- 7 Yes.

1.2.3.4.5.6.7.8.9.10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25
 25.27.28.29.30. Line is vertical



- f.7 7.
- 1 very difficult to see G
 - 2 I can only see part at a time
 - 3 No
 - 4 At a distance from my eyes
 - 10 They come up in any way written.
 - 13 Yes.



~~H. H. G.~~ 8

G

- 1/ The image of the breakfast is rather dim & I only seem to see a little at a time, and the brightness is not comparable to the actual scene.
- 2) I can not see all the objects at the same time
- 3) Yes.
- 5/ In different places generally at a little distance from me.
- * 10/ I can always imagine figures and in whatever colour I like.
- 13) Yes.



E. V. Long (9)

f.9

G

1. Diffr., and not comparable to the actual scene.
2. Pretty well.
3. Yes.
5. ~~At a distance composed for the eye.~~ Yes.
9. ~~They~~ They appear the same.
10. Written, Black
13. Yes.



1/ The image that arises in my mind's eye is perfectly clear - It's brightness is decidedly comparable to that of the actual scene for I can ^{as if} see in my mind's eye just as well ^{I was} beholding the scene with my own eyes -

2/ When looking at any thing in my mind's eye all the objects are clearly defined & I see every thing as it would appear before me with my eyes -

- 3/ All colors are perfectly distinct to me in my mind's eye in whatever scene or shape they appear to me -

4/ 5/ Mental images appear to me to be situated exactly in front of my eyes -

- Yes I can most certainly project any image whatsoever on a piece of paper -

7/ No I have never mistaken a mental
image for a reality, not believing in
Ghosts -

10/ No -

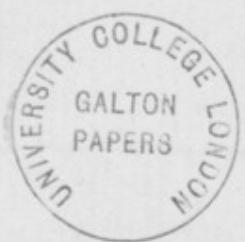


13/ I can easily remember a long &
time which I have once heard & at
times when I am thinking of something
entirely different time, etc will come
into my head, & I can imagine very
easily that I am hearing them played or
sung -

~~X~~ If I have once heard or seen written
down anywhere the initials of any
person or persons they are continually
coming into my mind & I see them
written before me in my mind's eye -

Also if I wish to remember any body's

in trials I have the greatest possible ease -
in so doing while taking part in
games etc pieces of Shakespeare are
continually coming into my mind -
~~& I can often~~ = 10 —



II

G

II

I can see the image fairly clearly; the brightness is not quite so clear as in a actual scene

- 3) The colours seem about the same
- 5) The images appear to be situated in the head.
- 9) A mental picture seems darker
- 10) The numerals seem written, they do not seem in any order,
- 13) Yes.



G

12.

1. The image is fairly clear. Yes
2. All the things and ~~G~~things are fairly well defined
3. Yes
4. The image is where I want it to be or where I happen to be looking
5. Part 2. No
6. No.
Sometimes printed but sometimes in no particular way
7. Yes





G

No. (13)

f. 14r

I

The image of my breakfast table is
very clear before my eyes.
The brightness is just the same
as the actual scene.

II

The objects are all pretty well
defined.

III

The colours of the china etc are quite
distinct & natural.

IV

The mental images seem to be just
in front of my eye.
I cannot project an image upon a
piece of paper

V

Numerals and dates I see printed
before me.

5

13

f. 14 v

\doteq

K

f. 1c

(1) very clear. yes

(2). all at the same time

(3) yes.

(4.) ~~in the eye balls~~. just in front of the eye. 20.

(5) 20

(6) 20

(7) 20 yes



K

No 1

April 14 M.C. 1880

No: 2.

f. 2

K

1. Fairly clear. No.
2. ~~you~~ It is more confused than the real.
3. Yes.
5. Just in front of the eyes.
9. Mental picture. no
is less distinct.
10. I can add & multiply by 9 easier than
any other number.
13. Yes.

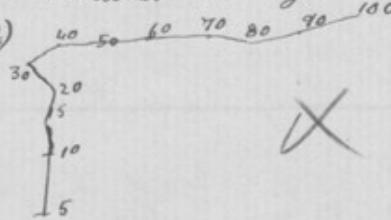


K 3

f. 3

3.

1. It is fairly clear. Yes.
2. ~~Magnas takeable~~ The place of sharpest definition at any one moment is more contracted than it is in a real scene
3. Quite distinct & natural
4. at a distance corresponding to reality. No.
5. Not quite so clear as in reality
10. Yes. (see Fig)



13. Yes



.4. ^{a.m.} K

1. Yes.

2. ~~yes~~ I can see almost as plainly as at the actual time.

3. They are quite.

5. I see everything as if I was looking at it from any particular place. I cannot project the image on a piece of paper.

9. The mental picture in the dark appears dull like an old picture.

10. Figures appear to be written but in different colours to different numbers, for instance a nine appears goldenish, a seven or kind of prussian blue. and 8 white, &c

13. Yes I have.



5

K

f. 5

- 1) Yes. Yes
2) Not very. O
3) Yes.
4) In front of the eyes. (Yes)
9) Not so clear. Yes.
10) No
13. No



6.

K

1. Yes. perfectly.

2. not distinctly. \checkmark

3. Yes.

5. ~~other sensations~~.

I can think things to be up on a blank piece
of paper.

9. Yes. Yes.

10. ~~Be. sensations.~~

yes in a straight-line line

$\frac{1}{10} \quad \frac{20}{30}$ and so on.

13. Yes.



K No. 4.

f. 7

1. Fairly clear. The vision is not quite as clear as the actual scene.
2. I cannot see them quite all at the same time.
3. Perfectly plain.
Yes.
4. Just in front of the eyes. *Yes.*
5. I am able to call up very vivid pictures at night in the dark but not in the day
Only in dreams.
6. When I think of a figure it seems printed before my eyes, but I cannot account.
Yes.



(8)

K

F. 8

1. Clear. Yes.
2. ~~Yes~~ No 0
3. Yet.
5. At a distance. No.
- q. Rather darker. Yes
10. No
- 13 Yes.



IX K

Y Yes. No. *

- 3) I cannot see all objects at the same time clearly defined.
- ③ Yes
- 5) Mental if I think of the far away they appear in my mind far away. & if near they appear near
- 9) They are just the same
- 10) When I think of number they seem to stand straight up to me before me ~~&~~ each number getting closer & closer as they ^{go} get higher.

13) Yes

"
" " "
1



10

K

- I. Perfectly. Yes.
- II. ~~see~~ ~~wants~~ hardly.
- III. Yes.
- IV. At a distance conforming to reality.
- V. The difference is that I see / that everything I call up in my mind seems to be a ~~new~~ was off.
I have sometimes mistaken a mental scene when wide awake
for the real.
- VI. Numerals & dates generally appear to me in a straight line
beginning from 1. on the left to 1000 or more on the right.
13. Yes.



K

II. f. 11

1. Clear, yes.
2. Not all at the same time.
3. Yes.
5. At a distance corresponding to reality: yes.
9. A scene in the dark is not so clear as in real scene.
10. Yes ^{as}, but rather in a muddle, quite plainly in printed figures.
11. Yes.

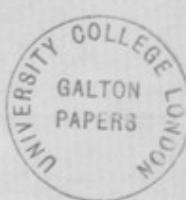


T2.

K

p. 12

- 1.) Yes fairly clear . Yes
- 2.) I can not see them distinctly at the same time
- 3.) Yes
- 5.) Before the eyes sometimes in my head sometimes down in the lower regions. sometimes in my head
- 9.) A mental picture in the dark & I see more fully than in the light
I see both the same.
- 10) Numerals and dots always come in the same example lines
- 13.) Yes



13.

K

f. 13

1. fairly clear, bright.
2. very well defined.
3. quite distinct and natural.
4. at a distance corresponding reality.
5. none whatever, no.
6. sometimes,
7. yes, yes.



14th

f. 14

K

1 Yes, diff., no yes.

2 _____ 0

3 Yes.

5 Long distance off. No.

9 No difference Yes.

11 No.

13 Yes.



1. Fairly clear. (2nd) No.

2. No. they are not defined at the same time.

3. not very clear.

5. No. G'ant does see anything

13. Yes:

K

f. 15

15.



~~Document~~

~~36~~

K 16.

f. 16

1. Fairly clear. Yes.
2. I cannot see everything at the same time, but what I do see seems almost real.
3. Yes.
4. At a distance corresponding to reality.
5. None whatever, except that the outlines of the different objects are not quite so well defined as in reality. No.
10. Numerals are but not dates. I cannot remember the diagram, as the more I think about it, the less I remember it.
13. Yes, a little.



17

K

1. Tolerably clear, No.
2. The place of sharpest definition is more contracted at some times than it is in a real scene.
3. Yes.
5. At a distance corresponding to reality
9. not so clearly as in reality.
10. No.
11. Yes.



N^o. 18. K

f. 18

1. Fairly Clear. but not quite so bright
2. I cannot see every thing distinctly at the same moment, only the object I am looking at
3. Yes.

- 45 At a little distance from the front of my eyes
9. That it is much smaller.
 - No, never.

- I always calculate by tens
10. and subtract or add as the case may be

13. Yes.

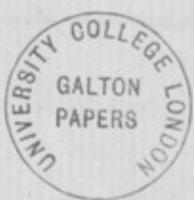


K

19

f. 19

1. Fairly clear. Yes.
2. The objects are only defined one at a time.
3. No.
4. 5. Just in front of the eye; Yes but very indistinct
9. The one in the dark is not so clear as the real scene.
No.
10. I have muddle up to 20 but up two a hundred
they go in a straight line all printed.
13. Yes.



20

K

f. 20c

1. Fairly clear. Yes

~~Yes.~~

2. No.

O

3. Yes.

5. In front of the eyes.

9. The picture seems ^{further off}. No.

10. Yes.

13. Yes.



No 20



for frame & for other

K 21

39

f. 21
~~J. S. Ramz.~~

1. It is very faintly clear, and I think its brightness is nearly equal to that of the actual scene.
at the same time
2. They are very well defined, and the place of sharpest definition is not contracted in the least.
3. Yes.
5. At the distance corresponding to reality.
Yes, I can.
9. None at all, except that it is merely a mental picture; and I have never mistaken such a thing for a reality.
10. I always see numerals and dates in black written figures, just as one would write them on paper.
13. No.

11



K 22
~~Aug 21st 1881~~

37

1. The image is fairly clear. The brightness is comparable to that of the actual scene.
2. All the objects are pretty well defined
3. All the colours are like the real scene.
4. At a distance corresponding to reality I could project an image upon a piece of paper.
5. Scarcely any difference. No.
6. No they are not.
7. I can a very little.



(no 23)

K

f. 23

1. Fairly clear, not quite so clear.
2. Most
3. Quite
4. 5. I see it according to the distance it is off.
6. None, no.
7. Generally, once I was told that if you counted a flock of sheep jumping over a gate, would send you to sleep, so I generally think of them.
8. Yes.



K

24.

- 1 - clear & yes.
- 2 well defined 3 clearly distinct and natural
- 5 in front of the eye, No.
- 9 all my mental pictures appear as in a sort of cloud as a frame, ^{No.} All, =
- 10 Yes.
- 13 Yes.



K

ho 25

f. 25

- 1.3 The image is fairly clear. yes.
- 2.3 The objects are pretty well defined. O
- 3.3 The colours of the china, toast, bread, crust, etc are quite distinct.
- 4.3 Within the eye-ball. Yes.
- 9.3 In the dark, but not ^{so} much in the light. yes.
- 10.3 When I say a word or think of a number
I often fancy where I have seen it.
- 13.3 Yes.



26

K

f. 26

1. Fairly clear
It is not comparable
2. All the objects are pretty fairly defined
3. They are quite distinct & natural

5) In the lead

9) The realcence is much plainer

No

10) No

13) No



No. 27 K

f. 27

1. Clear nearly as bright.
2. hot. 0
3. not quite so bright.
5. Just in front of the eyes.
9. That it is a little ~~smaller~~. No.
10. I count by tens & subtract or add.
13. Yes.



28.

K

1. Yes.
2. No, not very.
3. Yes, very distinct.
4. No.
5. The picture in the dark is not so clear. ~~You have~~.
6. No.
7. Yes, I often mentally recall it.



No 29.

f. 29r

1. Hairy clear? No K
2. The place of sharpest definition at one month is now
enlarged than of the real scene.
3. Yes.
5. Within the head. Yes.
9. Light? No.
10. Yes.
13. Mentally recalling it.



K.

