

Write your name here

Surname

Other names

Pearson Edexcel
Level 3 GCE

Centre Number

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Candidate Number

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Psychology

Advanced Subsidiary

Paper 1: Social and Cognitive Psychology

Sample assessment materials for first teaching
September 2015

Time: 1 hour 30 minutes

Paper Reference

8PS0/01

You do not need any other materials.

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided
– *there may be more space than you need.*

Information

- The total mark for this paper is 70.
- The marks for **each** question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*
- The list of formulae and critical value tables are printed at the start of this paper.
- Candidates may use a calculator.

Advice

- Read each question carefully before you start to answer it.
- Check your answers if you have time at the end.

Turn over ►

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FORMULAE AND CRITICAL VALUE TABLES

Standard deviation (sample estimate)

$$\sqrt{\left(\frac{\sum(x - \bar{x})^2}{n - 1}\right)}$$

Spearman's rank correlation coefficient

$$1 - \frac{6 \sum d^2}{n(n^2 - 1)}$$

Critical values for Spearman's rank

Level of significance for a one-tailed test					
	0.05	0.025	0.01	0.005	0.0025
Level of significance for a two-tailed test					
N	0.10	0.05	0.025	0.01	0.005
5	0.900	1.000	1.000	1.000	1.000
6	0.829	0.886	0.943	1.000	1.000
7	0.714	0.786	0.893	0.929	0.964
8	0.643	0.738	0.833	0.881	0.905
9	0.600	0.700	0.783	0.833	0.867
10	0.564	0.648	0.745	0.794	0.830
11	0.536	0.618	0.709	0.755	0.800
12	0.503	0.587	0.678	0.727	0.769
13	0.484	0.560	0.648	0.703	0.747
14	0.464	0.538	0.626	0.679	0.723
15	0.446	0.521	0.604	0.654	0.700
16	0.429	0.503	0.582	0.635	0.679
17	0.414	0.485	0.566	0.615	0.662
18	0.401	0.472	0.550	0.600	0.643
19	0.391	0.460	0.535	0.584	0.628
20	0.380	0.447	0.520	0.570	0.612
21	0.370	0.435	0.508	0.556	0.599
22	0.361	0.425	0.496	0.544	0.586
23	0.353	0.415	0.486	0.532	0.573
24	0.344	0.406	0.476	0.521	0.562
25	0.337	0.398	0.466	0.511	0.551
26	0.331	0.390	0.457	0.501	0.541
27	0.324	0.382	0.448	0.491	0.531
28	0.317	0.375	0.440	0.483	0.522
29	0.312	0.368	0.433	0.475	0.513
30	0.306	0.362	0.425	0.467	0.504

The calculated value must be equal to or exceed the critical value in this table for significance to be shown.

Chi-squared distribution formula

$$X^2 = \sum \frac{(O-E)^2}{E}$$

$$df = (r - 1)(c - 1)$$

Critical values for chi-squared distribution

Level of significance for a one-tailed test						
	0.10	0.05	0.025	0.01	0.005	0.0005
Level of significance for a two-tailed test						
df	0.20	0.10	0.05	0.025	0.01	0.001
1	1.64	2.71	3.84	5.02	6.64	10.83
2	3.22	4.61	5.99	7.38	9.21	13.82
3	4.64	6.25	7.82	9.35	11.35	16.27
4	5.99	7.78	9.49	11.14	13.28	18.47
5	7.29	9.24	11.07	12.83	15.09	20.52
6	8.56	10.65	12.59	14.45	16.81	22.46
7	9.80	12.02	14.07	16.01	18.48	24.32
8	11.03	13.36	15.51	17.54	20.09	26.12
9	12.24	14.68	16.92	19.02	21.67	27.88
10	13.44	15.99	18.31	20.48	23.21	29.59
11	14.63	17.28	19.68	21.92	24.73	31.26
12	15.81	18.55	21.03	23.34	26.22	32.91
13	16.99	19.81	22.36	24.74	27.69	34.53
14	18.15	21.06	23.69	26.12	29.14	36.12
15	19.31	22.31	25.00	27.49	30.58	37.70
16	20.47	23.54	26.30	28.85	32.00	39.25
17	21.62	24.77	27.59	30.19	33.41	40.79
18	22.76	25.99	28.87	31.53	34.81	42.31
19	23.90	27.20	30.14	32.85	36.19	43.82
20	25.04	28.41	31.41	34.17	37.57	45.32
21	26.17	29.62	32.67	35.48	38.93	46.80
22	27.30	30.81	33.92	36.78	40.29	48.27
23	28.43	32.01	35.17	38.08	41.64	49.73
24	29.55	33.20	36.42	39.36	42.98	51.18
25	30.68	34.38	37.65	40.65	44.31	52.62
26	31.80	35.56	38.89	41.92	45.64	54.05
27	32.91	36.74	40.11	43.20	46.96	55.48
28	34.03	37.92	41.34	44.46	48.28	56.89
29	35.14	39.09	42.56	45.72	49.59	58.30
30	36.25	40.26	43.77	46.98	50.89	59.70
40	47.27	51.81	55.76	59.34	63.69	73.40
50	58.16	63.17	67.51	71.42	76.15	86.66
60	68.97	74.40	79.08	83.30	88.38	99.61
70	79.72	85.53	90.53	95.02	100.43	112.32

The calculated value must be equal to or exceed the critical value in this table for significance to be shown.

Mann-Whitney U test formulae

$$U_a = n_a n_b + \frac{n_a(n_a+1)}{2} - \sum R_a$$

$$U_b = n_a n_b + \frac{n_b(n_b+1)}{2} - \sum R_b$$

(U is the smaller of U_a and U_b)**Critical values for the Mann-Whitney U test**

		N_b															
		5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
N_a		5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
$p \leq 0.05$ (one-tailed), $p \leq 0.10$ (two-tailed)																	
5		4	5	6	8	9	11	12	13	15	16	18	19	20	22	23	25
6		5	7	8	10	12	14	16	17	19	21	23	25	26	28	30	32
7		6	8	11	13	15	17	19	21	24	26	28	30	33	35	37	39
8		8	10	13	15	18	20	23	26	28	31	33	36	39	41	44	47
9		9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54
10		11	14	17	20	24	27	31	34	37	41	44	48	51	55	58	62
11		12	16	19	23	27	31	34	38	42	46	50	54	57	61	65	69
12		13	17	21	26	30	34	38	42	47	51	55	60	64	68	72	77
13		15	19	24	28	33	37	42	47	51	56	61	65	70	75	80	84
14		16	21	26	31	36	41	46	51	56	61	66	71	77	82	87	92
15		18	23	28	33	39	44	50	55	61	66	72	77	83	88	94	100
16		19	25	30	36	42	48	54	60	65	71	77	83	89	95	101	107
17		20	26	33	39	45	51	57	64	70	77	83	89	96	102	109	115
18		22	28	35	41	48	55	61	68	75	82	88	95	102	109	116	123
19		23	30	37	44	51	58	65	72	80	87	94	101	109	116	123	130
20		25	32	39	47	54	62	69	77	84	92	100	107	115	123	130	138

		N_b															
		5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
N_a																	
$p \leq 0.01$ (one-tailed), $p \leq 0.02$ (two-tailed)																	
5		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
6		2	3	4	6	7	8	9	11	12	13	15	16	18	19	20	22
7		3	4	6	7	9	11	12	14	16	17	19	21	23	24	26	28
8		4	6	7	9	11	13	15	17	20	22	24	26	28	30	32	34
9		5	7	9	11	14	16	18	21	23	26	28	31	33	36	38	40
10		6	8	11	13	16	19	22	24	27	30	33	36	38	41	44	47
11		7	9	12	15	18	22	25	28	31	34	37	41	44	47	50	53
12		8	11	14	17	21	24	28	31	35	38	42	46	49	53	56	60
13		9	12	16	20	23	27	31	35	39	43	47	51	55	59	63	67
14		10	13	17	22	26	30	34	38	43	47	51	56	60	65	69	73
15		11	15	19	24	28	33	37	42	47	51	56	61	66	70	75	80
16		12	16	21	26	31	36	41	46	51	56	61	66	71	76	82	87
17		13	18	23	28	33	38	44	49	55	60	66	71	77	82	88	93
18		14	19	24	30	36	41	47	53	59	65	70	76	82	88	94	100
19		15	20	26	32	38	44	50	56	63	69	75	82	88	94	101	107
20		16	22	28	34	40	47	53	60	67	73	80	87	93	100	107	114

		N_b															
		5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
N_a																	
$p \leq 0.025$ (one-tailed), $p \leq 0.05$ (two-tailed)																	
5		2	3	5	6	7	8	9	11	12	13	14	15	17	18	19	20
6		3	5	6	8	10	11	13	14	16	17	19	21	22	24	25	27
7		5	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
8		6	8	10	13	15	17	19	22	24	26	29	31	34	36	38	41
9		7	10	12	15	17	20	23	26	28	31	34	37	39	42	45	48
10		8	11	14	17	20	23	26	29	33	36	39	42	45	48	52	55
11		9	13	16	19	23	26	30	33	37	40	44	47	51	55	58	62
12		11	14	18	22	26	29	33	37	41	45	49	53	57	61	65	69
13		12	16	20	24	28	33	37	41	45	50	54	59	63	67	72	76
14		13	17	22	26	31	36	40	45	50	55	59	64	67	74	78	83
15		14	19	24	29	34	39	44	49	54	59	64	70	75	80	85	90
16		15	21	26	31	37	42	47	53	59	64	70	75	81	86	92	98
17		17	22	28	34	39	45	51	57	63	67	75	81	87	93	99	105
18		18	24	30	36	42	48	55	61	67	74	80	86	93	99	106	112
19		19	25	32	38	45	52	58	65	72	78	85	92	99	106	113	119
20		20	27	34	41	48	55	62	69	76	83	90	98	105	112	119	127

N_a	N_b															
	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
$p \leq 0.005$ (one-tailed), $p \leq 0.01$ (two-tailed)																
5	0	1	1	2	3	4	5	6	7	7	8	9	10	11	12	13
6	1	2	3	4	5	6	7	9	10	11	12	13	15	16	17	18
7	1	3	4	6	7	9	10	12	13	15	16	18	19	21	22	24
8	2	4	6	7	9	11	13	15	17	18	20	22	24	26	28	30
9	3	5	7	9	11	13	16	18	20	22	24	27	29	31	33	36
10	4	6	9	11	13	16	18	21	24	26	29	31	34	37	39	42
11	5	7	10	13	16	18	21	24	27	30	33	36	39	42	45	48
12	6	9	12	15	18	21	24	27	31	34	37	41	44	47	51	54
13	7	10	13	17	20	24	27	31	34	38	42	45	49	53	56	60
14	7	11	15	18	22	26	30	34	38	42	46	50	54	58	63	67
15	8	12	16	20	24	29	33	37	42	46	51	55	60	64	69	73
16	9	13	18	22	27	31	36	41	45	50	55	60	65	70	74	79
17	10	15	19	24	29	34	39	44	49	54	60	65	70	75	81	86
18	11	16	21	26	31	37	42	47	53	58	64	70	75	81	87	92
19	12	17	22	28	33	39	45	51	56	63	69	74	81	87	93	99
20	13	18	24	30	36	42	48	54	60	67	73	79	86	92	99	105

The calculated value must be equal to or less than the critical value in this table for significance to be shown.

Wilcoxon Signed Ranks test process

- Calculate the difference between two scores by taking one from the other
- Rank the differences giving the smallest difference Rank 1
Note: do not rank any differences of 0 and when adding the number of scores, do not count those with a difference of 0, and ignore the signs when calculating the difference
- Add up the ranks for positive differences
- Add up the ranks for negative differences
- T is the figure that is the smallest when the ranks are totalled (may be positive or negative)
- N is the number of scores left, ignore those with 0 difference

Critical values for the Wilcoxon Signed Ranks test

<i>n</i>	Level of significance for a one-tailed test		
	0.05	0.025	0.01
	Level of significance for a two-tailed test		
	0.1	0.05	0.02
N=5	0	-	-
6	2	0	-
7	3	2	0
8	5	3	1
9	8	5	3
10	11	8	5
11	13	10	7
12	17	13	9

The calculated value must be equal to or less than the critical value in this table for significance to be shown.

Answer ALL questions.

SECTION A: SOCIAL PSYCHOLOGY

1 Emma was driving to work and stopped at a set of traffic lights.
A police officer opened her car door and demanded that she get out so that he could use her car.

(a) From your understanding of the psychology of obedience, identify **two** features of this situation that could lead to Emma being obedient.

(2)

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(b) Emma refused to get out of her car and did not obey the police officer's demands.

Explain **one** factor, using psychology of obedience, that might account for Emma's behaviour.

(2)

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(Total for Question 1 = 4 marks)

2 A researcher would like to investigate older people's perceptions of teenagers. She decides to use a questionnaire to find out their views. For the questionnaire, she uses a sample of participants from an adult education centre.

(a) (i) Write **two** closed questions that could be used in the questionnaire to investigate older people's perceptions of teenagers.

(2)

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(ii) The data gathered from the researcher's questionnaire is quantitative. Define the term 'quantitative data'.

(1)

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(iii) The researcher collected 20 responses to this questionnaire.

Describe **one** way that you would carry out an analysis on this data.

(2)

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(b) Explain how **one** research method, other than using a questionnaire, could be used to study prejudice.

(3)

(Total for Question 2 = 8 marks)

3 Sherif et al. (1954/1961) conducted research called The Robbers Cave Experiment.

(a) State **two** ways in which conflict was created between the groups of boys in the experiment.

(2)

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(b) Using your knowledge of Sherif's research, explain **one** way to reduce prejudice in schools that are experiencing conflict between groups of students.

(3)

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(Total for Question 3 = 5 marks)

- 4 Psychologists used a questionnaire to investigate whether the attitudes of local people towards newcomers (non-locals) were positive or negative. They found the following results:

Participant	Mean number of positive attitudes (out of 10)	Mean number of negative attitudes (out of 10)
A	3	6
B	5	8
C	1	5
D	1	4
E	5	4
F	5	8
G	1	4
H	3	8
I	5	8
J	6	6
Mean ratings of attitudes of local people towards newcomers	3.5	6.1
Mode ratings of attitudes of local people towards newcomers		

Table 1

- (a) (i) Complete the table above to show the modes from the data in **Table 1**. (1)
- (ii) Give **one** reason why the mode is not the most useful measure of central tendency when analysing this data. (1)

- (b) Another descriptive statistic for this data is dispersion. There are two measures of dispersion, range and standard deviation.

Explain which measure of dispersion is best for this data.

(2)

(Total for Question 4 = 4 marks)

SECTION B: COGNITIVE PSYCHOLOGY

- 6** Define the terms 'encoding' and 'capacity' as they are used in cognitive psychology.

Encoding

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Capacity

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(Total for Question 6 = 2 marks)

- 7 Barbara was investigating people's memory in a school classroom. Barbara placed in the classroom everyday classroom objects, such as books, and objects that would not normally be found in a classroom, such as a teapot. She invited participants to look around the classroom and later recall as many objects as they could. She chose to give participants a list of objects so that they could tick the objects they remembered.

Table 2 summarises her results.

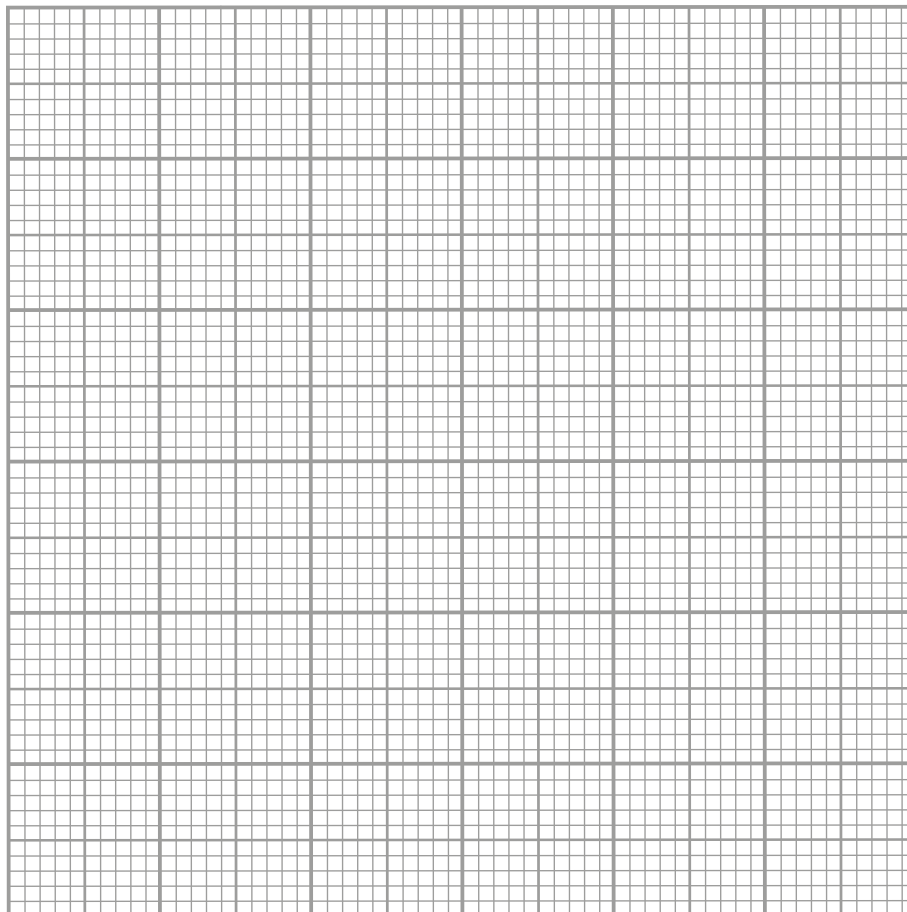
	Everyday classroom objects	Objects not normally found in a classroom
Mean number of objects recalled	20	5

Table 2

- (a) Draw an appropriate graph to represent Barbara's results.

(3)

Title:



(b) Analyse Barbara's results to show if they support a prediction that could be made using the theory of reconstructive memory.

(3)

(c) Explain **one** way in which Barbara could have improved this investigation.

(2)

(Total for Question 7 = 8 marks)

8 Rashine found it difficult to revise while listening to music. Rashine's teacher said that the working memory model could explain this.

Explain, using the working memory model, why Rashine found it difficult to revise while listening to music.

(Total for Question 8 = 3 marks)

9 Henry Molaison (HM) suffered memory loss following a surgical procedure that left him with brain damage.

(a) Explain **two** ways in which the case of Henry Molaison (HM) contributes to our understanding of memory.

(4)

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(b) Explain **one** strength and **one** weakness of using case studies of brain-damaged patients to inform our understanding of how memory works.

(4)

Strength

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Weakness

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(Total for Question 9 = 8 marks)

(Total for Question 11 = 12 marks)

TOTAL FOR SECTION C = 12 MARKS
TOTAL FOR PAPER = 70 MARKS