

Please check the examination details below before entering your candidate information

Candidate surname

Other names

Centre Number

Candidate Number

Pearson Edexcel Level 3 GCE

Monday 12 May 2025

Afternoon (Time: 1 hour 30 minutes)

Paper
reference

8PS0/01

Psychology

Advanced Subsidiary

PAPER 1: Social and Cognitive Psychology

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 statistical 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.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ►

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FORMULAE AND STATISTICAL 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

N	Level of significance for a one-tailed test				
	0.05	0.025	0.01	0.005	0.0025
N	Level of significance for a two-tailed test				
	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.

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Chi-squared distribution formula

$$X^2 = \sum \frac{(O-E)^2}{E} \qquad df = (r - 1)(c - 1)$$

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																			
$p \leq 0.05$ (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			



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N_a	N_b															
	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
$p \leq 0.01$ (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_a	N_b															
	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
$p \leq 0.025$ (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



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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.



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Answer ALL questions. Write your answers in the spaces provided.

SECTION A

SOCIAL PSYCHOLOGY

1 Using an example, define what is meant by 'qualitative data'.

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(Total for Question 1 = 2 marks)

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2 Luncester and Melwich are two rugby teams that compete against one another.

Mo used a questionnaire to gather opinions from 50 Luncester fans who attended a rugby match between Luncester and Melwich about the skills of the players.

(a) Describe how Mo could use an opportunity sampling technique to gather participants for his investigation.

(2)

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(b) Mo’s questionnaire asked the fans to rate each player from Luncester and Melwich for rugby skills using a rating scale. On the rating scale, a score of 1 represented the lowest level of skill and a score of 100 represented the highest level of skill.

Table 1 shows the mean score for the rugby skills given to Luncester and Melwich players.

Team	Mean score for rugby skills given by Luncester fans to Luncester and Melwich players
Luncester	80
Melwich	60

Table 1



Draw a bar chart to represent the data in **Table 1**.

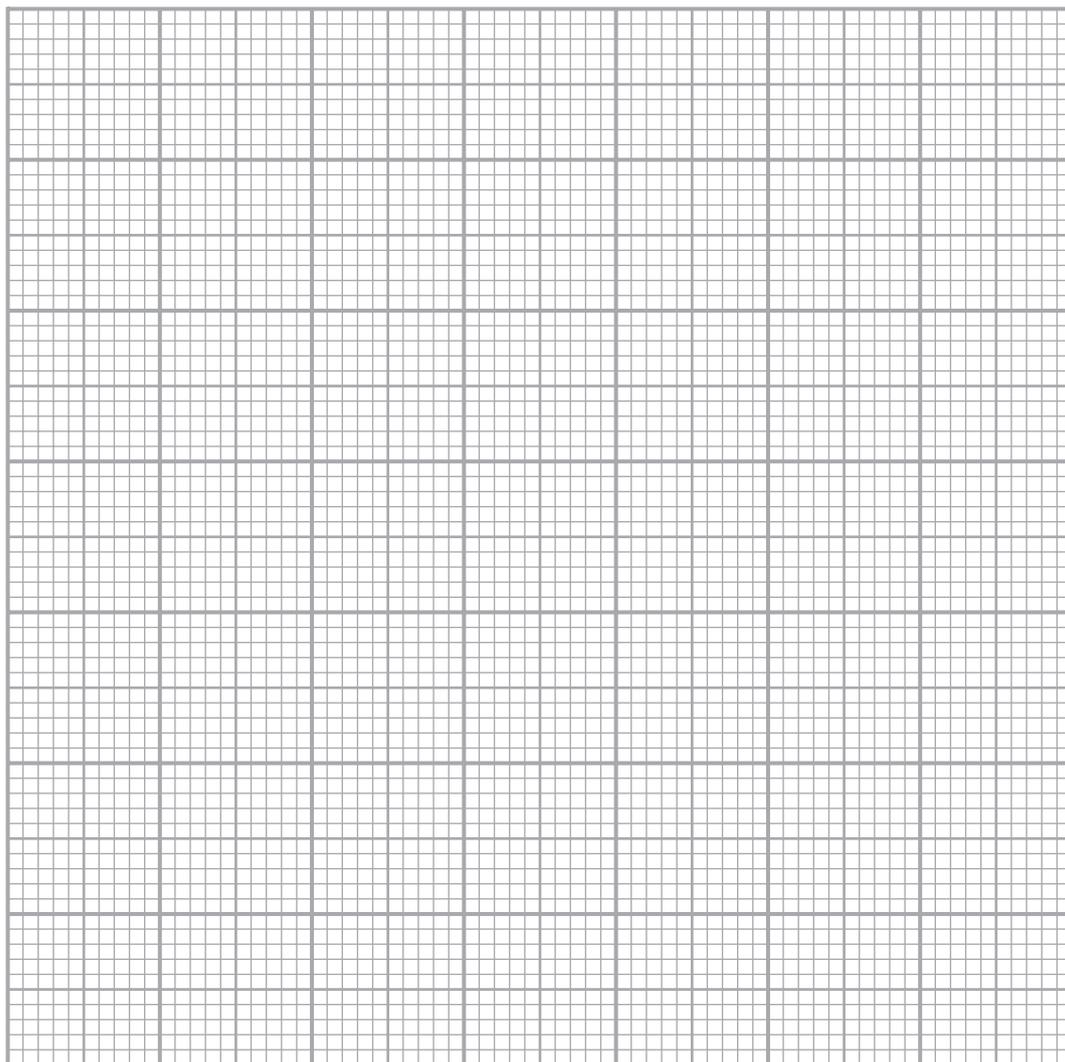
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P 7 8 7 7 5 A 0 1 1 3 6

(c) Explain **one** weakness of Mo's investigation.

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(Total for Question 2 = 7 marks)

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QUESTION 3 BEGINS ON THE NEXT PAGE



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(b) Explain **one** strength and **one** weakness of agency theory as an explanation of obedience.

(4)

Strength

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Weakness

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(Total for Question 3 = 8 marks)

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4 Explain **two** strengths of social identity theory as an explanation of prejudice.

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QUESTION 5 BEGINS ON THE NEXT PAGE



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(Total for Question 5 = 8 marks)

TOTAL FOR SECTION A = 29 MARKS



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SECTION B

COGNITIVE PSYCHOLOGY

6 Atkinson and Shiffrin (1968) proposed the multi-store model of memory.

(a) Describe short-term memory according to the multi-store model of memory.

(2)

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(b) Explain **one** weakness of the multi-store model of memory.

(2)

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(Total for Question 6 = 4 marks)



7 In your studies of cognitive psychology, you will have completed a practical investigation.

(a) State the independent variable (IV) and the dependent variable (DV) for your practical investigation in cognitive psychology.

(2)

Independent variable (IV)

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Dependent variable (DV)

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(b) Explain **one** strength and **one** weakness of your practical investigation in cognitive psychology.

(4)

Strength

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Weakness

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(Total for Question 7 = 6 marks)

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8 Explain **two** strengths of using case studies of brain-damaged patients when researching memory.

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(Total for Question 8 = 4 marks)

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QUESTION 9 BEGINS ON THE NEXT PAGE



- 9 Nyasha recruited British children to take part in a memory experiment. She showed the children a five-minute cartoon that she had downloaded from a popular streaming service.

Nyasha asked the children to write a description of the cartoon on the day they watched it and again after one week. She counted the number of words that the children wrote in their descriptions of the cartoon.

Table 2 shows Nyasha's results.

Participant	Number of words written in the description of the cartoon	
	On the day the cartoon was watched	One week after the cartoon was watched
A	45	35
B	49	26
C	29	9
D	44	22
E	22	25
F	53	39
G	41	26
H	33	17
I	28	30

Table 2

- (a) Calculate the median number of words written in the description of the cartoon on the day the cartoon was watched.

(1)

SPACE FOR CALCULATIONS

Median:



(b) Nyasha used a Wilcoxon Signed Ranks test to analyse her data.

Complete **Table 3** and calculate the Wilcoxon Signed Ranks test for Nyasha's data.

(4)

Participant	Number of words written on the day the cartoon was watched	Number of words written one week after the cartoon was watched	Difference	Rank	Rank if positive	Rank if negative
A	45	35				
B	49	26				
C	29	9				
D	44	22				
E	22	25				
F	53	39				
G	41	26				
H	33	17				
I	28	30				
Total:						

Table 3

SPACE FOR CALCULATIONS

Wilcoxon T value

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(c) Explain **one** improvement Nyasha could make to her experiment.

(2)

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(Total for Question 9 = 7 marks)

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QUESTION 10 BEGINS ON THE NEXT PAGE



10 Assess how useful the working memory model (Baddeley and Hitch, 1974) is as an explanation of memory.

(8)

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(Total for Question 10 = 8 marks)

TOTAL FOR SECTION B = 29 MARKS



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(Total for Question 11 = 12 marks)

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



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