

Write your name here

Surname

Other names

**Pearson**  
**Edexcel GCE**

Centre Number

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Candidate Number

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# Psychology

**Advanced**

**Paper 2: Applications of Psychology**

Wednesday 14 June 2017 – Afternoon

**Time: 2 hours**

Paper Reference

**9PS0/02**

**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 in Section **A**. Answer ALL questions from **one** of the three options in Section **B**.
- Answer the questions in the spaces provided  
– *there may be more space than you need.*

## Information

- The total mark for this paper is 90.
- 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

N	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				
	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

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

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

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

<b>5</b>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<b>6</b>	2	3	4	6	7	8	9	11	12	13	15	16	18	19	20	22
<b>7</b>	3	4	6	7	9	11	12	14	16	17	19	21	23	24	26	28
<b>8</b>	4	6	7	9	11	13	15	17	20	22	24	26	28	30	32	34
<b>9</b>	5	7	9	11	14	16	18	21	23	26	28	31	33	36	38	40
<b>10</b>	6	8	11	13	16	19	22	24	27	30	33	36	38	41	44	47
<b>11</b>	7	9	12	15	18	22	25	28	31	34	37	41	44	47	50	53
<b>12</b>	8	11	14	17	21	24	28	31	35	38	42	46	49	53	56	60
<b>13</b>	9	12	16	20	23	27	31	35	39	43	47	51	55	59	63	67
<b>14</b>	10	13	17	22	26	30	34	38	43	47	51	56	60	65	69	73
<b>15</b>	11	15	19	24	28	33	37	42	47	51	56	61	66	70	75	80
<b>16</b>	12	16	21	26	31	36	41	46	51	56	61	66	71	76	82	87
<b>17</b>	13	18	23	28	33	38	44	49	55	60	66	71	77	82	88	93
<b>18</b>	14	19	24	30	36	41	47	53	59	65	70	76	82	88	94	100
<b>19</b>	15	20	26	32	38	44	50	56	63	69	75	82	88	94	101	107
<b>20</b>	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)**

<b>5</b>	2	3	5	6	7	8	9	11	12	13	14	15	17	18	19	20
<b>6</b>	3	5	6	8	10	11	13	14	16	17	19	21	22	24	25	27
<b>7</b>	5	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
<b>8</b>	6	8	10	13	15	17	19	22	24	26	29	31	34	36	38	41
<b>9</b>	7	10	12	15	17	20	23	26	28	31	34	37	39	42	45	48
<b>10</b>	8	11	14	17	20	23	26	29	33	36	39	42	45	48	52	55
<b>11</b>	9	13	16	19	23	26	30	33	37	40	44	47	51	55	58	62
<b>12</b>	11	14	18	22	26	29	33	37	41	45	49	53	57	61	65	69
<b>13</b>	12	16	20	24	28	33	37	41	45	50	54	59	63	67	72	76
<b>14</b>	13	17	22	26	31	36	40	45	50	55	59	64	67	74	78	83
<b>15</b>	14	19	24	29	34	39	44	49	54	59	64	70	75	80	85	90
<b>16</b>	15	21	26	31	37	42	47	53	59	64	70	75	81	86	92	98
<b>17</b>	17	22	28	34	39	45	51	57	63	67	75	81	87	93	99	105
<b>18</b>	18	24	30	36	42	48	55	61	67	74	80	86	93	99	106	112
<b>19</b>	19	25	32	38	45	52	58	65	72	78	85	92	99	106	113	119
<b>20</b>	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
<b><math>p \leq 0.005</math> (one-tailed), <math>p \leq 0.01</math> (two-tailed)</b>																
<b>5</b>	0	1	1	2	3	4	5	6	7	7	8	9	10	11	12	13
<b>6</b>	1	2	3	4	5	6	7	9	10	11	12	13	15	16	17	18
<b>7</b>	1	3	4	6	7	9	10	12	13	15	16	18	19	21	22	24
<b>8</b>	2	4	6	7	9	11	13	15	17	18	20	22	24	26	28	30
<b>9</b>	3	5	7	9	11	13	16	18	20	22	24	27	29	31	33	36
<b>10</b>	4	6	9	11	13	16	18	21	24	26	29	31	34	37	39	42
<b>11</b>	5	7	10	13	16	18	21	24	27	30	33	36	39	42	45	48
<b>12</b>	6	9	12	15	18	21	24	27	31	34	37	41	44	47	51	54
<b>13</b>	7	10	13	17	20	24	27	31	34	38	42	45	49	53	56	60
<b>14</b>	7	11	15	18	22	26	30	34	38	42	46	50	54	58	63	67
<b>15</b>	8	12	16	20	24	29	33	37	42	46	51	55	60	64	69	73
<b>16</b>	9	13	18	22	27	31	36	41	45	50	55	60	65	70	74	79
<b>17</b>	10	15	19	24	29	34	39	44	49	54	60	65	70	75	81	86
<b>18</b>	11	16	21	26	31	37	42	47	53	58	64	70	75	81	87	92
<b>19</b>	12	17	22	28	33	39	45	51	56	63	69	74	81	87	93	99
<b>20</b>	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.







(b) Compare **two** explanations of schizophrenia.

(4)

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**(Total for Question 1 = 8 marks)**





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3 A group of psychiatrists conducted research with patients experiencing depression. They asked the patients to rate their mood every day over a month, using a scale where 1 was extremely happy and 10 was extremely unhappy.

The results for patients with depression are in **Table 1** below.

	<b>Average mood score for patients with depression over the last month</b>
Patient 1	5
Patient 2	6
Patient 3	3
Patient 4	7
Patient 5	4
Patient 6	4
Patient 7	5
Patient 8	7
Patient 9	7
Patient 10	6
<b>Mean score</b>	
<b>Median score</b>	
<b>Mode score</b>	

**Table 1**

(a) Calculate the measures of central tendency for the data in **Table 1** and **complete Table 1** with your answers.

(3)

**SPACE FOR CALCULATIONS**



(b) Define what is meant by the term 'a measure of dispersion'.

(1)

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(c) A group of patients without depression were asked to rate their mood every day over a month to act as a control group.

The psychiatrists calculated the standard deviation for the mood score for patients with depression. The psychiatrists found a standard deviation of 1.43 for the mood score for the patients with depression.

The psychiatrists found a standard deviation of 3.46 for the mood score of patients without depression.

Interpret what the two standard deviations tell us about the results.

(2)

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**(Total for Question 3 = 6 marks)**



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4 Interviews are one research method used within clinical psychology.

Evaluate the use of interviews within clinical psychology.

(8)

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(Total for Question 4 = 8 marks)





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(Total for Question 5 = 8 marks)







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(Total for Question 6 = 20 marks)

**TOTAL FOR SECTION A = 54 MARKS**



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SECTION B

Answer questions from ONE option in this section.

Indicate which question you are answering by marking a cross . If you change your mind, put a line through the box  and then indicate your new question with a cross .

If you answer the questions in Option 1 put a cross in the box .

OPTION 1: CRIMINOLOGICAL PSYCHOLOGY

Answer ALL questions.

7 Benito carried out some research into the effects of anger management treatment with offenders. He recorded the number of aggressive acts offenders displayed. The offenders who had anger management treatment had a mean score of 3.4 aggressive acts. The offenders who did not have anger management treatment had a mean score of 7.9 aggressive acts.

(a) (i) State which statistical test Benito would use to analyse his data. (1)

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(ii) State **three** reasons why Benito would use the statistical test you identified in (i). (3)

1.....  
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2.....  
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3.....  
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(b) Benito used a random sample.

Describe how he would have selected his sample.

(2)

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**(Total for Question 7 = 6 marks)**



P 4 8 5 6 8 A 0 2 3 4 8

8 There are many biological explanations for crime and anti-social behaviour.

(a) Describe XYY syndrome as an explanation of crime and anti-social behaviour.

(4)

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(b) Another explanation of crime and anti-social behaviour is the influence of personality.

Explain **one** strength of personality as a factor that influences crime and anti-social behaviour.

(2)

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**(Total for Question 8 = 6 marks)**





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9 There are various treatments for offenders using a variety of psychological approaches, including the biological approach.

Evaluate **one** biological treatment for offenders.

(8)

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(Total for Question 9 = 8 marks)



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**10** You will have learnt about a key question from criminological psychology that is relevant to today's society.

Assess the key question from criminological psychology.

(16)

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(Total for Question 10 = 16 marks)

**TOTAL FOR SECTION B OPTION 1 = 36 MARKS**



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**BLANK PAGE**  
**OPTION 2 BEGINS ON PAGE 32.**



**OPTION 2: CHILD PSYCHOLOGY**

If you answer the questions in Option 2 put a cross in the box  .

**Answer ALL questions.**

**11** Benito carried out some research into the effects of day care on children's behaviour. He recorded the number of aggressive acts children displayed. The children who attended full-time day care had a mean score of 3.4 aggressive acts. The children who did not attend full-time day care had a mean score of 7.9 aggressive acts.

(a) (i) State which statistical test Benito would use to analyse his data. (1)

.....

.....

(ii) State **three** reasons why Benito would use the statistical test you identified in (i). (3)

1 .....

.....

2 .....

.....

3 .....

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(b) Benito used a random sample.  
Describe how he would have selected his sample. (2)

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**(Total for Question 11 = 6 marks)**

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12 Charlie has just received a diagnosis of autism.

(a) Describe the features of autism.

(4)

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(b) There are several explanations for autism. One is the biological explanation.

Explain **one** weakness of **one** biological explanation of autism.

(2)

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**(Total for Question 12 = 6 marks)**



**13** There has been a lot of research carried out on the effects of privation.

Evaluate research into privation.

(8)

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(Total for Question 13 = 8 marks)



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**14** You will have learnt about a key question from child psychology that is relevant to today's society.

Assess the key question from child psychology.

(16)

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(Total for Question 14 = 16 marks)

**TOTAL FOR SECTION B OPTION 2 = 36 MARKS**



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**OPTION 3: HEALTH PSYCHOLOGY**

**If you answer the questions in Option 3 put a cross in the box  .**

**Answer ALL questions.**

**15** Benito carried out some research into the effects of an advertising campaign about healthy living. He recorded the number of times people exercised each week. The people who had viewed the campaign had a mean score of 7.9 exercise sessions. The people who had not viewed the campaign had a mean score of 3.4 exercise sessions.

(a) (i) State which statistical test Benito would use to analyse his data. (1)

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(ii) State **three** reasons why Benito would use the statistical test you identified in (i). (3)

1.....  
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2.....  
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3.....  
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(b) Benito used a random sample.  
Describe how he would have selected his sample. (2)

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**(Total for Question 15 = 6 marks)**

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**16** Ben is addicted to heroin. His parents want to find out about the causes of heroin addiction.

(a) Describe **one** biological explanation for heroin addiction.

(4)

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(b) Explain **one** weakness of **one** biological explanation for heroin addiction.

(2)

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**(Total for Question 16 = 6 marks)**



17 There are several treatments for heroin addiction.

Evaluate **one** treatment for heroin addiction.

(8)

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(Total for Question 17 = 8 marks)



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**18** You will have learnt about a key question from health psychology that is relevant to today's society.

Assess the key question from health psychology.

(16)

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**(Total for Question 18 = 16 marks)**

**TOTAL FOR SECTION B OPTION 3 = 36 MARKS**

**TOTAL FOR PAPER = 90 MARKS**



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