

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**

**Paper 2: Applications of Psychology**

Friday 8 June 2018 – Morning

**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 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.
- 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

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.



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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



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$N_a$	$N_b$															
	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.



**SECTION A: CLINICAL PSYCHOLOGY**

**Answer ALL questions.**

**1** Mundra is a clinical psychologist. She has to abide by the Health and Care Professionals Council (HCPC) guidelines when she works with patients.

(a) State **one** guideline from the Health and Care Professionals Council (HCPC).

(1)

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(b) Describe how Mundra would use **one** guideline from the HCPC in her practice.

(3)

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**(Total for Question 1 = 4 marks)**

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**QUESTION 2 BEGINS ON THE NEXT PAGE.**



- 2 Archie carried out an interview looking at people's attitudes to those with a mental health issue. He compared the attitudes of people who knew someone with a mental health issue with the attitudes of people who did not know someone with a mental health issue.

Archie used a Likert scale to gather his data, where 1 showed a positive attitude and 7 showed a negative attitude.

Archie's median scores are shown in **Table 1** below.

	People who knew someone with a mental health issue	People who did not know someone with a mental health issue
Median score on attitudes to those with a mental health issue	2	5

**Table 1**

- (a) Analyse what Archie's results show about people's attitudes to those with a mental health issue.

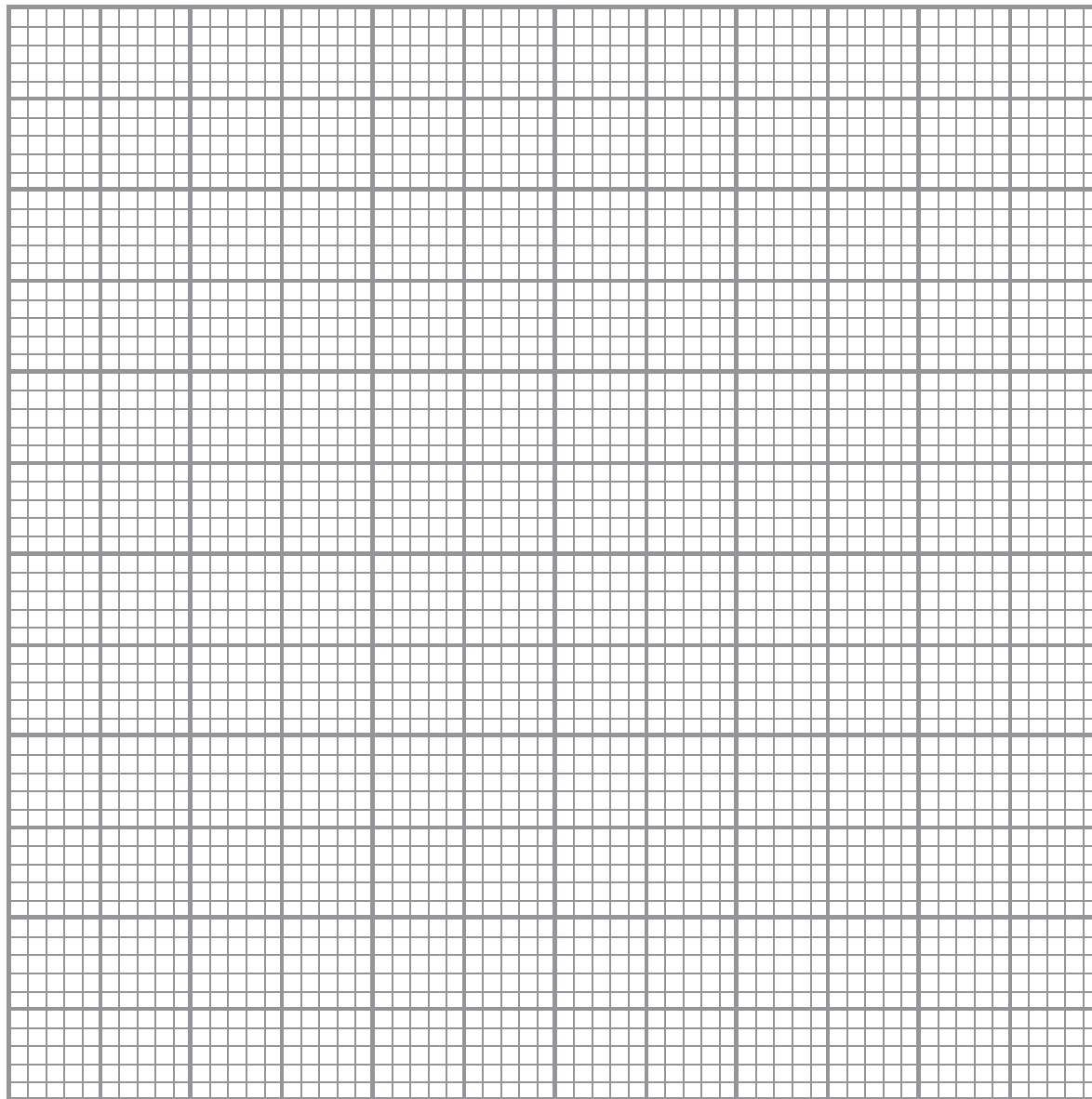
(2)



(b) Draw a bar chart to show the median results of Archie's study using the data from **Table 1**.

(3)

Title



(Total for Question 2 = 5 marks)

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**3** Erik has been asked to carry out a cross-sectional study of patients' behaviour on a psychiatric ward.

(a) Describe how Erik may obtain his sample for his cross-sectional study.

(2)

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(c) Explain **one** strength and **one** weakness of a cross-sectional study.

(4)

Strength

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Weakness

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**(Total for Question 3 = 9 marks)**

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4 Evaluate **one** treatment for schizophrenia that you have studied.

(8)

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(Total for Question 4 = 8 marks)





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5 During your course you will have studied Rosenhan's (1973) study.

Evaluate Rosenhan's (1973) study.

(8)

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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 Jason carried out an experiment on the effects of leading questions on the accuracy of eyewitnesses' recall. All participants had 15 questions in their interview.

He interviewed one group of participants who had five leading questions in the interview (Condition 1). The other group of participants had no leading questions in their interview (Condition 2).

Jason's results are in **Table 2**.

Condition 1 Number of incorrect answers in the group with leading questions	Condition 2 Number of incorrect answers in the group with no leading questions
5	0
4	1
4	1
3	2
2	4
5	3
1	0
2	0
3	1
4	1
4	2
2	1
<b>Total = 39</b>	<b>Total = 16</b>
<b>Mean =</b>	<b>Mean =</b>

Table 2

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(a) Calculate the mean score for Condition 1 and the mean score for Condition 2 and complete **Table 2** with your answers to **two** decimal places.

(2)

**SPACE FOR CALCULATIONS**

(b) Describe how Jason could use the findings of his study to improve eyewitness testimony.

(2)

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**(Total for Question 7 = 4 marks)**





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(b) Explain **one** strength and **one** weakness of **one** cognitive-behavioural treatment for offenders.

(4)

Strength

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Weakness

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





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**(Total for Question 9 = 8 marks)**



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P 5 2 2 0 5 A 0 3 1 5 6

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**(Total for Question 10 = 16 marks)**

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



P 5 2 2 0 5 A 0 3 3 5 6

**OPTION 2: CHILD PSYCHOLOGY**

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

**Answer ALL questions.**

- 11** Jason carried out an experiment on the type of toys children played with. He studied a group of boys and recorded how many times they played with cars (Condition 1) and how many times they played with dolls (Condition 2).

Jason's results are in **Table 3**.

<b>Condition 1</b> <b>Number of times the boys played with cars</b>	<b>Condition 2</b> <b>Number of times the boys played with dolls</b>
5	0
4	1
4	1
3	2
2	4
5	3
1	0
2	0
3	1
4	1
4	2
2	1
<b>Total = 39</b>	<b>Total = 16</b>
<b>Mean =</b>	<b>Mean =</b>

**Table 3**

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(a) Calculate the mean score for Condition 1 and the mean score for Condition 2 and complete **Table 3** with your answers to **two** decimal places.

(2)

**SPACE FOR CALCULATIONS**

(b) Jason observed that most of the boys were happy to leave their mothers and explore the room as long as they could still see their mother. However, if the mothers left the room then the boys would get upset.

Describe the type of attachment the boys demonstrated in Jason's observation.

(2)

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**(Total for Question 11 = 4 marks)**



**12** Helen works with children with autism. This includes offering therapies that will help them.

(a) Describe how **one** therapy could be used by Helen to help children with autism.

(4)

A series of horizontal dotted lines for writing the answer.

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(b) Explain **one** strength and **one** weakness of **one** therapy that is used to help children with autism.

(4)

Strength

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Weakness

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**(Total for Question 12 = 8 marks)**

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(Total for Question 13 = 8 marks)



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DO NOT WRITE IN THIS AREA

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(Total for Question 14 = 16 marks)

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



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

**OPTION 3: HEALTH PSYCHOLOGY**

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

**Answer ALL questions.**

- 15** Jason carried out a study on attitudes towards drugs, comparing the attitudes of teenagers (Condition 1) and the attitudes of those aged over 50 (Condition 2).

Jason used a ranked scale to gather his data, where 0 showed a negative attitude towards drugs and 5 showed a positive attitude towards drugs.

Jason's results are in **Table 4**.

<b>Condition 1 Attitudes of teenagers towards drugs</b>	<b>Condition 2 Attitudes of the over 50s towards drugs</b>
5	0
4	1
4	1
3	2
2	4
5	3
1	0
2	0
3	1
4	1
4	2
2	1
<b>Total = 39</b>	<b>Total = 16</b>
<b>Mean =</b>	<b>Mean =</b>

**Table 4**

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(a) Calculate the mean score for Condition 1 and the mean score for Condition 2 and complete **Table 4** with your answers to **two** decimal places.

(2)

**SPACE FOR CALCULATIONS**

(b) Describe how Jason could use the findings of his study to support a learning explanation of drug addiction.

(2)

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**(Total for Question 15 = 4 marks)**





(b) Explain **one** strength and **one** weakness of **one** treatment that is used with people addicted to alcohol.

(4)

Strength

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Weakness

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**(Total for Question 16 = 8 marks)**

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DO NOT WRITE IN THIS AREA

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(Total for Question 17 = 8 marks)



P 5 2 2 0 5 A 0 4 9 5 6

**18** Ian carries out animal laboratory experiments to study drugs. He gave drugs to 35 monkeys and kept the monkeys in isolation during the experiment. After the experiment, Ian reintroduced the monkeys to their social group, but they were rejected by the other monkeys.

To what extent are animal laboratory experiments appropriate to study drugs?  
You must make reference to the context in your answer.

(16)

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DO NOT WRITE IN THIS AREA

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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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