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Candidate surname

Other names

**Pearson Edexcel  
Level 3 GCE**

Centre Number

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Candidate Number

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**Friday 5 June 2020**

Afternoon (Time: 2 hours)

Paper Reference **9PS0/02**

**Psychology**

**Advanced**

**Paper 2: Applications of 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 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

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

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

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

### Critical values for chi-squared distribution

df	Level of significance for a one-tailed test					
	0.10	0.05	0.025	0.01	0.005	0.0005
df	Level of significance for a two-tailed test					
	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
<b><math>p \leq 0.01</math> (one-tailed), <math>p \leq 0.02</math> (two-tailed)</b>																
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
<b><math>p \leq 0.025</math> (one-tailed), <math>p \leq 0.05</math> (two-tailed)</b>																
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
<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** In your studies of clinical psychology you will have learned about schizophrenia.

Describe **three** features of schizophrenia.

1 .....

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2 .....

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3 .....

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**(Total for Question 1 = 3 marks)**

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2 Andi is a clinical psychologist who is investigating whether family relationships improve or deteriorate once a person has been diagnosed with a mental health disorder.

Andi is going to interview two separate groups.

- Group A: Patients and families waiting for a diagnosis of a mental health disorder.
- Group B: Patients and families who already have a diagnosis of a mental health disorder.

Andi carries out interviews with patients and their families. She uses both open questions and closed questions in her interviews.

(a) Suggest **one** open question Andi may use in her interview about the influence of diagnosis on family relationships.

(1)

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.....

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- (b) Andi collated the data from her closed questions. Her results are shown in **Table 1**.

	Patient and family waiting for a diagnosis	Patient and family who already have a diagnosis
Family relationships improved	10	25
Family relationships deteriorated	20	15

**Table 1**

Andi carried out a chi-squared test on her data.

State **two** reasons why Andi used the chi-squared test on her data.

(2)

1 .....

2 .....

- (c) Andi found an observed / calculated value of 5.84 when  $df=1$  when she calculated the chi-squared test for her investigation.

Explain whether Andi's results were significant for a one-tailed (directional) hypothesis when  $p \leq 0.01$ .

(2)



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(d) Andi carried out a thematic analysis on the data from the open questions.

Explain **one** strength and **one** weakness of thematic analysis as used by Andi.

(4)

Strength

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Weakness

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**(Total for Question 2 = 9 marks)**



3 In your studies of clinical psychology you will have learned about Carlsson et al. (2000).

(a) State **two** aims of Carlsson et al. (2000).

(2)

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2 .....

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(b) Carlsson et al. (2000) collected secondary data.

Explain **one** strength and **one** weakness of using secondary data in clinical psychology.

(4)

Strength

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Weakness

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

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**(Total for Question 4 = 8 marks)**





5 Assess the validity of diagnoses of mental health disorders through the use of classification systems.

(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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8 Brie carried out an experiment to see the effect that labelling had on participants' perception of the probability of someone committing a crime. She selected her participants from students who were available in the refectory on one weekday during lunchtime.

She gave two separate groups of participants a different scenario to read.

- Condition A: the scenario stated that the person had already been involved in anti-social behaviour.
- Condition B: the scenario did not state anything about the person's previous behaviour.

Brie then asked the participants to rate how probable it was that the person in the scenario would commit a crime. A score of 7 was 'highly likely to commit a crime' and a score of 0 was 'highly unlikely to commit a crime'.

(a) Identify the sampling technique used by Brie in her experiment.

(1)

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The results from the experiment carried out by Brie are shown in **Table 2**.

	<b>Condition A: the scenario stated that the person had already been involved in anti-social behaviour</b>	<b>Condition B: the scenario did not state anything about the person's previous behaviour</b>
<b>Mean score (out of 7) for the participants' perception of how likely the person was to commit a crime</b>	5	3

**Table 2**

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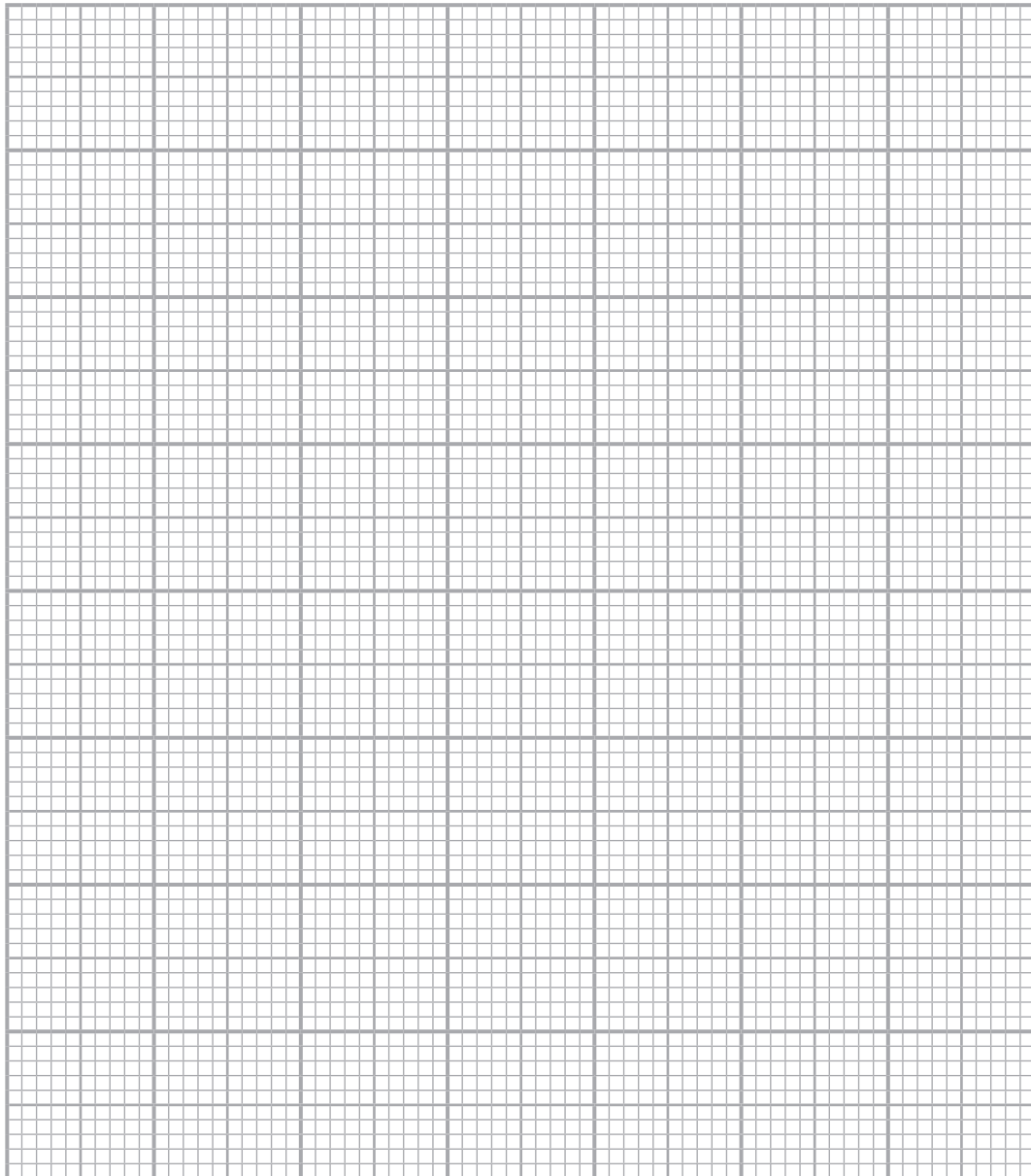


(b) Draw a suitable graph to represent the results shown in **Table 2**.

(3)

Title .....

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





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

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



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**12** Brie carried out an observation to see the effects of day care on one-year-olds' reactions to their mother leaving the room. She selected her participants from those who were available at a local day care centre one Monday.

She had two groups of one-year-old children.

- Condition A: the one-year-olds spent less than 15 hours a week in day care.
- Condition B: the one-year-olds spent over 30 hours a week in day care.

She set up a playroom and asked the mothers to play with their child for five minutes and then leave the room. Brie then rated the level of crying of the one-year-olds. A score of 7 was 'intense crying' and a score of 0 was 'no crying at all'.

(a) Identify the sampling technique used by Brie in her investigation.

(1)

The results from the observation carried out by Brie are shown in **Table 3**.

	<b>Condition A: the one-year-olds spent less than 15 hours a week in day care</b>	<b>Condition B: the one-year-olds spent more than 30 hours a week in day care</b>
<b>Mean score (out of 7) for the intensity of the crying.</b>	5	3

**Table 3**

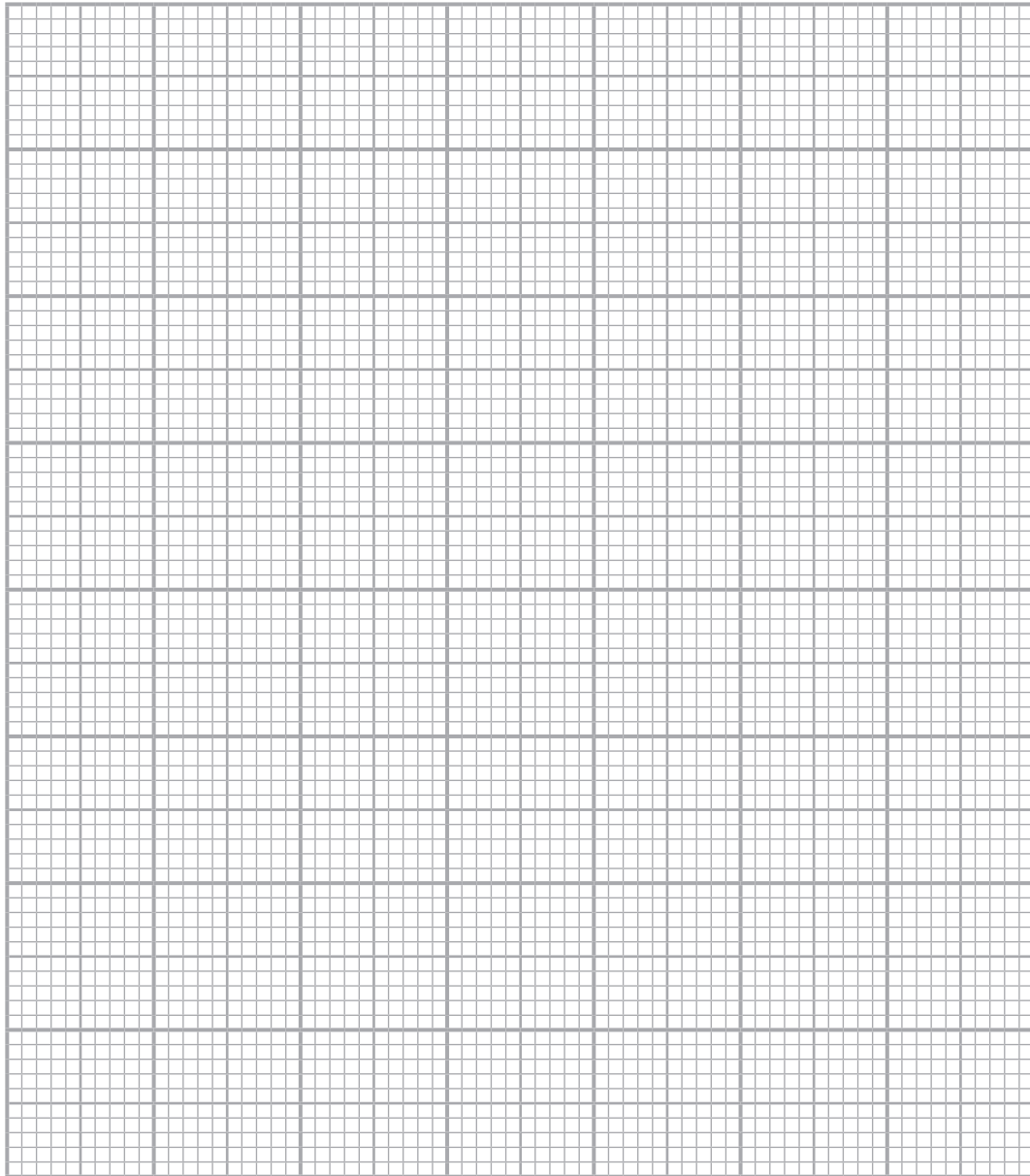


(b) Draw a suitable graph to represent the results shown in **Table 3**.

(3)

Title .....

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**(Total for Question 13 = 8 marks)**







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(Total for Question 14 = 16 marks)

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



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**16** Brie carried out an experiment to see the effect of a new drug for treating heroin addiction. The new drug was developed to reduce the impact of withdrawal symptoms. She selected heroin addicts from those who were available at a local rehabilitation centre one Monday.

She compared two groups of heroin addicts.

- Condition A: the heroin addicts who were not given the new drug.
- Condition B: the heroin addicts who were given the new drug.

Brie then asked the heroin addicts to rate the intensity of their withdrawal symptoms. A score of 7 was 'high intensity of withdrawal symptoms' and a score of 0 was 'low intensity of withdrawal symptoms'.

(a) Identify the sampling technique used by Brie in her experiment.

(1)

The results from the experiment carried out by Brie are shown in **Table 4**.

	<b>Condition A: the heroin addicts who were not given the new drug</b>	<b>Condition B: the heroin addicts who were given the new drug</b>
<b>Mean score (out of 7) for the intensity of the withdrawal symptoms.</b>	5	3

**Table 4**

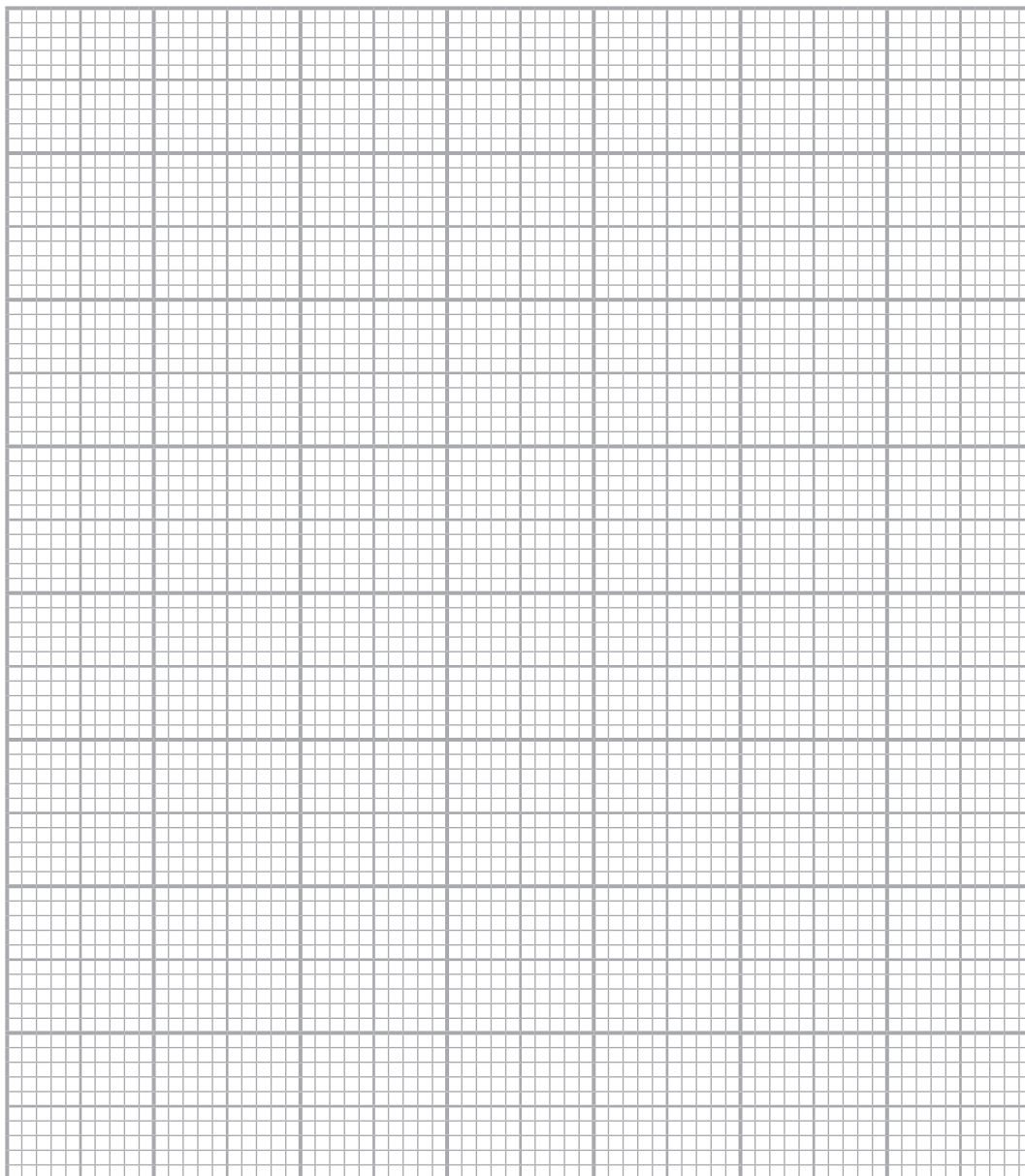


(b) Draw a suitable graph to represent the results shown in **Table 4**.

(3)

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**Total for Question 17 = 8 marks)**



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

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**TOTAL FOR SECTION B OPTION 3 = 36 MARKS**  
**TOTAL FOR PAPER = 90 MARKS**



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