



Cambridge International AS & A Level

CANDIDATE NAME					
CENTRE NUMBER			CANDIDATE NUMBER		

PSYCHOLOGY

9990/21

Paper 2 Research Methods

May/June 2025

1 hour 30 minutes

You must answer on the question paper.

No additional materials are needed.

INSTRUCTIONS

- Answer all questions.
- Use a black or dark blue pen. You may use an HB pencil for any diagrams or graphs.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answer to each question in the space provided.
- Do **not** use an erasable pen or correction fluid.
- Do not write on any bar codes.

INFORMATION

- The total mark for this paper is 60.
- The number of marks for each question or part question is shown in brackets [].

This document has 12 pages. Any blank pages are indicated.

Section A

2

Answer all questions.

1	(a)	Describe what is meant by a questionnaire.
		[2]
	(b)	Explain one practical strength of using a questionnaire.
		[2]
2		study by Bandura et al. (aggression) provides no information about whether or not consent obtained from the participants.
	(a)	Outline what is meant by 'consent'.
		[1]
	(b)	Suggest why obtaining consent would have been important in this study.
		[2]



ı	Suggest one reason why using par Milgram's test of obedience. Use ar	-	•	d be importa
• •	Suggest one reason why using part test of obedience. Use an example	•	rent ages could be impo	rtant to Milgr
•				
•				
	e study by Baron-Cohen et al. (eyestandard deviation of the ages of th			
	Group	Mean	Standard deviation	
	Group Group 1 (AS/HFA adults)	Mean 29.7	Standard deviation 14.5	
	·			

		[1]
(b)	State what the standard deviations show about the ages of the two groups.	
		[1]

* 0000800000004 *

5	Explain one ethical weakness of the case study research method. Do not use consent in your answer.
	[2]
6	Describe opportunity sampling and random sampling, using any example(s).
	ia)

(a) (i)

(ii)

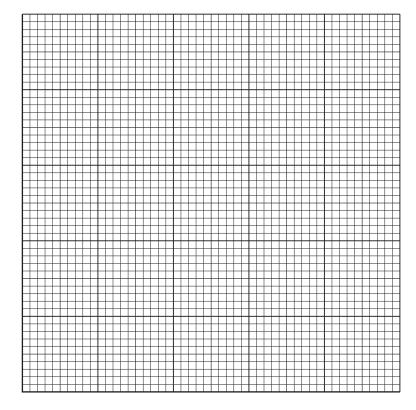


5

7 Dr Smith wants to compare how easily two species of animal learn to press a lever to receive food.

animals learn.	easily the
	[2]
The two species are very similar, but one is bigger than the other.	
For the way that you suggested for measuring how easily the animals learn in particles.	

(b) Draw the axes for a graph that could be used to show the results of Dr Smith's study using the measure of learning that you suggested in part (a)(i). You must label the axes.



.....[2]

8

6

(C)	_	ecies'.
		[2]
		collecting data from other students in her class to test the hypothesis 'There is a hip between tidiness of classwork and enjoyment of lessons'.
(a)	Josi	ie will use one of these measures of tidiness:
	•	look at the work herself and decide whether each student's work is tidy or not ask the student to rate the tidiness of their work on a scale of 0 (untidy) to 5 (very tidy).
	(i)	Explain one problem about validity or reliability that Josie could have with one of her measures of tidiness.
	(ii)	Explain one problem about ethics that Josie could have with one of her measures of tidiness.
		[2]
(b)	The	hypothesis that Josie is testing is correlational.
		lain which one of the measures of tidiness in part (a) is not suitable for Josie to use in her relation.



(c) Josie's data shows that students who enjoy lessons more have tidier work.

7

(i)	Explain what Josie will conclude about her correlation.
	[2]
(ii)	Explain whether Josie can conclude that having tidier classwork influences students' enjoyment of lessons.
	[2]

9 Dr Gao is planning a longitudinal study about changes in reading habits. She will study the same group of participants from childhood, through adolescence and into adulthood.

8

- (a) Dr Gao will need to contact her participants at regular intervals.
 - (i) Dr Gao is deciding how often to test her participants, and is considering:
 - weekly
 - yearly.

	Explain which of these intervals is the most suitable for Dr Gao's study.
	[1]
(ii)	Suggest how Dr Gao could contact her participants during the study.
	[1]
(iii)	Suggest two problems that Dr Gao may have when trying to contact her participants at regular intervals.
	1
	2
	[2]
	olleague, Dr Roberts, says that the study could be conducted by comparing participants of erent ages at one point in time.
stud	gest one advantage of Dr Roberts' idea, compared to Dr Gao's plan for a longitudinal ly. not refer to contacting participants in your answer.
D0 1	not refer to contacting participants in your answer.

(b)



Section B

9

Answer all questions.

- 10 Dr Miller is researching factors that affect how well people sleep. He wants to know whether creative activities (such as art, music or dance) help people to sleep well.
 - (a) Describe how Dr Miller could conduct an experiment using an independent measures design to investigate whether creative activities help people to sleep well.

Do not describe sample/sampling technique or ethical issues/guidelines in your answer.
[10]



(ii)

(b)	(i)	Explain one advantage of using an independent measures design in this study compared
		to using a repeated measures design.

Do not relei to etilics in your answer.	
	[2
Explain one disadvantage of using an independent measures design in this compared to using a repeated measures design.	s study
Do not refer to ethics in your answer.	



11

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