

A Level Psychology H567/01 Research methods

Practice paper – Set 1

Time allowed: 2 hours

 You must have:
a calculator

First name		
Last name		
Centre number	Candidate number	

INSTRUCTIONS

- · Use black ink.
- Complete the boxes above with your name, centre number and candidate number.
- Answer all the questions.
- · Write your answer to each question in the space provided. If additional space is required, use the lined page(s) at the end of this booklet. The question number(s) must be clearly shown.
- Do **not** write in the barcodes.

INFORMATION

- The total mark for this paper is 90.
- The marks for each question are shown in brackets [].
- · Quality of extended responses will be assessed in questions marked with an asterisk (*).
- · This document consists of 20 pages.



SECTION A: Multiple choice

Answer **all** the questions in Section A.

1		is the name used for the technique that enables qualitative data to be recorded in a itative way?	
	Α	coding frame	
	В	collection frame	
	С	conduct frame	
	D	construct frame	
	Your	answer	P.4.1
			[1]
2	Which	of these best describes a quasi experiment?	
	A	dependent variable is directly manipulated	
	В	dependent variable is not directly manipulated	
	С	independent variable is directly manipulated	
	D	independent variable is not directly manipulated	
	Your	answer	ra:
			[1]
3		type of observation is conducted in a real-life setting where participants are not usual they are being studied?	ly
	A	ecological	
	В	naturalistic	
	С	realistic	
	D	secretive	
	Your	answer	[1]
			۲.1

4	Which	of these best describes what the variance is?	
	Α	measure of central tendency	
	В	measure of dispersion around the mean	
	С	measure of proportionality	
	D	measure of quantifiable data	
	Your a	answer	[1]
5	Which	of these indicates the research is significant at the 5% level of probability?	
	Α	p<0.005	
	В	p<0.05	
	С	p>0.005	
	D	p>0.05	
	Your a	answer	[1]
6	Which	of these refers to making a Type 1 error?	
	Α	abandoning the null hypothesis	
	В	ignoring the null hypothesis	
	С	incorrectly accepting the null hypothesis	
	D	incorrectly rejecting the null hypothesis	
	Your a	answer	[1]

7	What	is 7.864 written to two significant figures?	
	Α	7.8	
	В	7.86	
	С	7.9	
	D	8.0	
	Your	answer	[1]
8	What	is the median for this set of data 10, 12, 6, 5, 14, 3?	
	Α	6.5	
	В	7.5	
	С	8.0	
	D	16.0	
	Your	answer	[1]
9	What	is the collective term for the mean, median and mode?	
	Α	measures of central dispersion	
	В	measures of central range	
	С	measures of central significance	
	D	measures of central tendency	
	Your	answer	[1]

10	Which	n of these is a non-parametric inferential statistical test?
	A	Mann Whitney U
	В	mean
	С	range
	D	standard deviation
	Your	answer [1]
11		vspaper includes 12 pages of sport and eight pages of TV. What is the ratio of sport to TV your answer in its simplest form.
	Α	2:3
	В	3:2
	С	8:12
	D	12:8
	Your	answer [1]
12		ich of the following sections of the write-up of a practical report would you find a full copy standardised instructions read to the participants?
	Α	abstract
	В	appendices
	С	materials
	D	procedure
	Your	answer [1]

13	What	is 2,830 written in standard form?	
	Α	2.83×10^2	
	В	2.83 x 10 ³	
	С	2.83 x 10 ⁴	
	D	2.83 x 10 ⁵	
	Your a	answer	[1]
14		ura et al. recorded children's behaviour every five seconds for a period of 20 minutes tudy of the imitation of aggression. What type of sampling of behaviour is this aspect udy?	
	Α	event	
	В	participant	
	С	structured	
	D	time	
	Your a	answer	[1]
15		sampling technique was used to obtain participants in the study of whistleblowers by itaro et al.?	
	Α	opportunity	
	В	random	
	С	self-selected	
	D	snowball	
	Your a	answer	[1]

16	Which	of these is nominal data?	
	Α	classifying participants as 'good', 'average' or 'poor'	
	В	ratings by an independent observer on a scale of 1 (very good) to 10 (very poor)	
	С	self-ratings by participants on a scale of 1 (very good) to 10 (very poor)	
	D	use of a stop-watch to record reaction time	
	Your	answer	[1]
17		ch section of the write-up of a practical report would you find details of work conducted per psychologists?	:d
	A	appendices	
	В	introduction	
	С	materials/apparatus	
	D	procedure	
	Your	answer	[1]
18		is the term that describes the process whereby other psychologists comment on rch before it is published?	
	A	peer review	
	В	private review	
	С	pseudo review	
	D	public review	
	Your	answer	[1]

19	How many independent groups were there in experiment 1 of Loftus and Palmer's study investigating the effects of language on memory?		
	Α	2	
	В	3	
	С	4	
	D	5	
	Your	answer	[1]
20		n of these best describes the type of data collected in Loftus and Palmer's study tigating the effects of language on memory?	
	Α	both quantitative and qualitative	
	В	neither qualitative or quantitative	
	С	qualitative	
	D	quantitative	
	Your	answer	[1]

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SECTION B: Research design and response

Answer all the questions in Section B.

Memory can be influenced by many different things, including the appearance of what it is we are trying to remember. For example, green is a natural colour that features a lot in our environment, so may help improve how we learn and remember things we see in this colour. To investigate this psychologists want to use the laboratory experiment method to investigate if presenting words in green ink compared to black helps improve memory.

21		ticipants for the study will be obtained by putting up a poster on a notice board in a large al supermarket asking for volunteers for a study investigating factors influencing memory.	
	(a)	What type of sampling technique is this?	
			[1]
	(b)	Describe one strength and one weakness of using this sampling technique in this study	/ .
			[4]
22	Wri	te a one-tailed alternative hypothesis for this study.	

- 23* Explain how you would conduct a study using the laboratory experiment method to investigate the effect of colour on memory for a list of words. Justify your decisions as part of your explanation. You must refer to:
 - the use of independent measures design or repeated measures design
 - how the variables are operationalised
 - at least two control features
 - level of data collected

You should use your own experience of carrying out an experiment to inform your response.

[15]

24	Eva	luate the use of matched participants design if it had been used in this study.	
			• •
			• •
			• •
			••
		[0	3]
25		chologists want to conduct a follow-up study using the self-report method to investigate er things that may influence memory.	
		Suggest one open question that could be used in this study.	
		[2	 2]
	(b)	Suggest one closed question that could be used in this study.	
		[ź	2]
	(c)	Suggest one question using a rating scale that could be used in this study.	
		[2	2]

SECTION C: Data analysis and interpretation

Answer all the questions in Section C.

An educational psychologist conducted research investigating if there was any correlation between performance in two different but related subjects studied by GCSE students. If a student is good at one, are they also good at the other, and if they perform poorly in one does that mean that they will also struggle to do well in the other one? Data from a small sample is presented in the table below.

Table showing test results from two different subjects studied by a group of participants			
Participant	Maths test score	Physics test score	
а	20	23	
b	15	17	
С	6	24	
d	28	30	
е	8	12	
f	11	14	
g	22	24	
h	4	7	

26	identify two findings from the data presented in this table.	
		[4]
		[7]
27	Draw a scatter diagram displaying the results of this study.	
	1	
		Γ <i>Α</i> 1
		[4]

28	(a)	Calculate the range for each test taken.
		[2]
	(b)	What conclusion can be reached by interpreting the range for each test?
		[4]
	(c)	Suggest one advantage of using standard deviation instead of the range to analyse the data from each test.
		[3]

29	(a)	Suggest two strengths of using correlation in this study.	
			[4]
	(b)	Suggest two weaknesses of using correlation in this study.	
			[4]
30	(a)	The psychologist used the Spearman's ranked correlation coefficient test to analyse the data from this study. Explain why this was an appropriate test to use.	
			. [2]
	(b)	Explain how the data would be ranked for use in this test.	
			. [2]

	(C)	ne interential test result produced a calculated value of +0.7083. Explain what this means.
		ro
		[3]
31	(a)	What does the term 'critical value' refer to?
		[1]
	(b)	How would the critical value be obtained in this study?
		ro.

END OF QUESTION PAPER

ADDITIONAL ANSWER SPACE

If additional answer space is required, you should use the following lined page(s). The question number(s) must be clearly shown in the margin(s).

	 	

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