



Joseph Banks Secondary College

**Research Methods, Relational
Influences and Communication**
Worth 4% of the School Mark
Question/Answer Booklet

Year 12 ATAR PSYCHOLOGY

Unit 3

Student name : _____

Time allowed for this paper

Reading time before commencing work:

three minutes

Working time for the paper:

sixty minutes

Materials required/recommended for this paper

To be provided by the supervisor:

This Question/Answer Booklet

Formulae and Data Booklet

To be provided by the candidate:

Standard items: pens (blue/black preferred), pencils (including coloured), sharpener, correction tape/fluid, eraser, ruler, highlighters.

Special items: non-programmable calculators approved for use in the WACE examinations

Important note to candidates

No other items may be taken into the examination room. It is **your** responsibility to ensure that you do not have any unauthorised notes or other items of a non-personal nature in the examination room. If you have any unauthorised material with you, hand it to the supervisor **before** reading any further.

Structure of this paper

Section	Number of questions available	Suggested working time (minutes)	Your Mark	Marks available	Percentage of test
Section One: Research Methods	2	30		29	50
Section Two: Short Answer	3	30		2	50
Total				55	100

Instructions to candidates

1. The rules for the conduct of Western Australian external examinations are detailed in the *Year 12 Information Handbook 2016*. Sitting this examination implies that you agree to abide by these rules.
2. Write your answers in this Question/Answer Booklet.
3. When calculating numerical answers, show your working or reasoning clearly. Your working should be in sufficient detail to allow your answers to be checked readily and for marks to be awarded for reasoning.

In calculations, give final answers to one significant figures and include appropriate units where applicable.

4. You must be careful to confine your responses to the specific questions asked and to follow any instructions that are specific to a particular question.
5. Supplementary pages for the use of planning/continuing your answer to a question may have been provided at the end of this Question/Answer booklet. If you use these pages to continue an answer, indicate at the original answer where the answer is continued, i.e. give the page number.

Section 1: Research Methods**(29 marks)****Question 1****(14 marks)**

- (a) Distinguish between scientific and non-scientific research in the table below. (6 marks)

	Scientific	Non-scientific
Collection of evidence		
Methodology		
Reliability		

Dr Koba conducted an experiment to test the effects of sugar on behaviour. He divided the participants randomly into two groups. One group was given a capsule containing 50 mg of sugar and the second group was given a capsule of water. The participants were then given a series of word problems to complete.

- (b)

- i. State the term used to identify the group that was given the capsule of water. (1 mark)

Dr Koba, Dr Davey and Dr Aslan explained their understanding of statistical significance. Each described their understanding differently in the conversation below.

Dr Koba: It means that my data is probably reliable, I can draw conclusions from it

Dr Davey: I'm sorry, you're wrong. It gives you an indication that your results are most likely due to something other than chance.

Dr Aslan: You're both wrong. It's when you calculate statistics, and they are correct.

- ii. Which person most correctly understands statistical significance? Circle their name below. (1 mark)

Dr Koba

Dr Davey

Dr Aslan

Dr Koba conducted a piece of research looking at the impact of matcha on mood. Dr Koba split a group of 100 participants into two groups those who received 1 cup of matcha per day over a 4-week period and those who received no matcha. Participant mood scores were measured daily and averaged below.

Larger values indicate higher reported mood scores.

	Average mood score at the start	Average mood score after 4 weeks
Matcha	4.3	6.7
No Matcha	1.2	7.8

iii. Describe the conclusions Dr Koba can make with $P > .05$ (3 marks)

iv. Describe the data that Dr Koba collected above. (2 marks)

v. Dr Koba wanted to collect a different form of data. Give an example of a more reliable data collection method Dr. Koba could use. (1 mark)

Question 2

(8 Marks)

A psychologist conducted a study to investigate the relationship between the total number of hours of television watched and the total number of hours of sleep over seven days. Seven volunteer participants recorded for seven days the number of hours of television they watched and the number of hours they slept. The results of the study are shown in the table below.

Participant Number	Total number of hours of television watched	Total number of hours sleep
1	35	45
2	14	50
3	9	58
4	8	60
5	5	64
6	2	67
7	8	62

The mean number of hours of television watched was 11.57 hours.

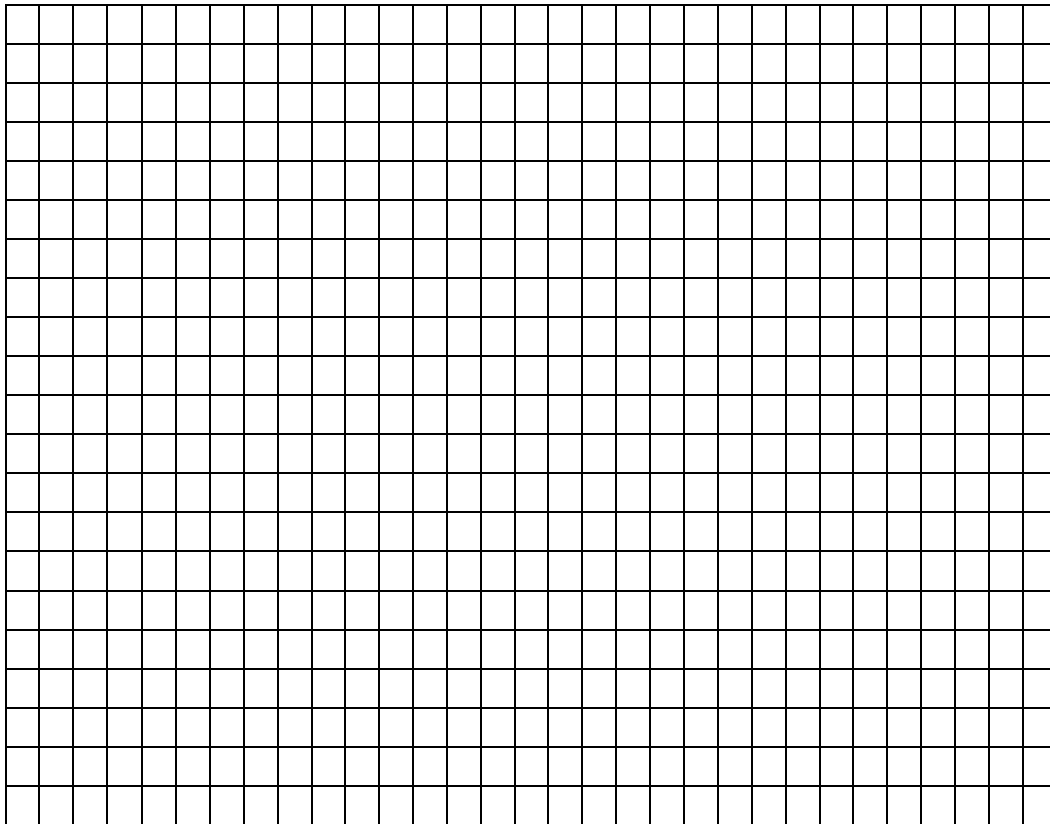
- (a) Identify the median of the number of hours of television watched. (1 mark)

- (b) State **one (1)** advantage of using the median instead of the mean as a measure of central tendency. (1 mark)

- (c) State a conclusion that the researcher could draw from the results of this study. (1 mark)

- (d) Plot a graph of the results on the grid below.

(4 marks)



- (e) Describe the relationship that can be seen from the graph.

(1 mark)

Question 3

(7 marks)

- a) Why should psychologists be concerned with ethical issues when they perform research with human participants?

(2 marks)

- b) Define 'privacy' and 'confidentiality' as they relate to psychological research and outline the difference between the two terms. (3 marks)

Privacy: _____

Confidentiality: _____

Difference: _____

- c) Outline two reasons why the mean score for a sample and its corresponding population may be different. (2 marks)

Section 2 – Short Answer Question**Question 4 - Communication****(6 marks)**

a) Define the term communication style and give one example.

(2 marks)

b) Briefly outline the key differences that Bernstein noted between the middle and working classes communication styles.

(2 marks)

c) Describe two key findings that Labov found when studying the language of African-American children in New York.

(2 marks)

Question 5 – Relational Influences**(14 marks)**

a) Define socialisation.

(1 mark)

b) In hospitals in decades past, premature babies were placed in humidicribs and parents were asked to 'look but not touch' and babies were handled only when necessary. Now however, mothers are encouraged to hold their premature babies on their breast with skin-to-skin contact for a few hours every day, where possible.

i. Identify the psychological research conducted on animals that may have contributed to this change in practice. (1 mark)

ii. Outline the findings from this study and explain why and how premature babies would benefit from skin-to-skin contact, both in the short term and the long term. (3 marks)

c) Bowlby conducted research called the 44 thieves' study. Briefly outline the findings and conclusions from this research. (2 marks)

d) Outline one piece of criticism that Bowlby's research has faced. (1 mark)

c) Alia has triplets. After reading about Mary Ainsworth's attachment studies, Alia realises that each of her children displays a different attachment style: Anouk is a Type A, Eden is a Type B and Lee it a Type C.

i. Complete the table below by stating the name of the different attachment styles and describe how the Type B and C child may behave when Alia presents them with the Strange Situation. (4 marks)

Child	Attachment style name	Behaviour
Anouk		Ignores Alia, fails to look at her, does not seek her contact/comfort
Eden	Secure	
Lee		

ii. All infants have signalling behaviours explain the importance of these behaviours and give one example. (2 marks)

Question 6**(6 marks)**

a) Define conflict.

(1 mark)

a) Sam and Max are the only two employees working in Western Australia for a large multinational company. They are having a dispute with their employer with their employer with regards to their wages. Sam and Maw want a pay rise, but the company thinks they are asking for too much money. Describe one type of solutions to resolve the conflict Include one consequence (positive of negative) to using each solution. **(2 marks)**

One:

b) Blake has been out with his friends and stayed out past curfew. His parents are worried about where he is as his phone is also going straight to voicemail. Blake's phone had run out of battery while had been out with his friends when one of them had a seizure and he had accompanied him to the hospital.

Compare how an authoritative and authoritarian would respond and what consequences would be put in place. **(3 marks)**

Authoritative: _____

Authoritarian: _____

Difference: _____
