

PSYCHOLOGY ATAR - YEAR 12 2024

Unit 4

Task 7: Sleep Validation

Abanlah

Syllabus points

Applications of psychology to health

Ethical guidelines and practices for psychological research

Formulating research

Methodology

Data collection

Drawing conclusions

Evaluation of research

Conditions

Reading time: 5 minutes Working time: 40 minutes

Task Weighting

• 7%

Structure of this paper

Section	Number of questions available	Number of questions to be attempted	Suggested working time (minutes)	Marks	Score
Section One: Short Answer	5	5	40	41	
		y (3)	Total	41	

46 - 4 maras

56-

puro acutables or not

3. Formulate an evidence-based conclusion that explains your findings using psychological theories and concepts.

(6 marks)

10-Year 12 Dog ATAR psychology students were selected in the study othe study found the helationship between wheter using devices 30 minutes before bed or not har an effect The sleep duration, quality, mood, attention and cognitive functioning throughout the day on a self measure scale. It can be concluded that Wing storderices 30 minutes before decreases the sleep whration, quality, lowers mood, attention and cognitive tunctioning in teenagers. This is due to the blue kight distribut district you the circudian rythm as well as release melatonin which it a sleeping hormone which are neduces sleep duration and quality which affects mood athention and counitive functioning regariely.

- results the class

ria provence un Misa

4.	The data was collected using a subjective quantitative measure.
	(a) With reference to your study, outline a strength of this method of data collection. (2 marks)
	Quantative data is short and easy to
	do and doesn't take time. The self measure
	scale was out of 10 and it took no time to do.
	(b) Suggest how qualitative data could be collected in a future study. (4 marks)
	A survey could be done. This survey could
7	have a number of questions the pushapante home
	to answer in words & This would provide rich
	dualatative data as et it 11 be words but it
	will be fine consuming.
	(c) Explain how qualitative data addresses a limitation of quantitative data. (2 marks)
	- Quantatorive data isn't detailed as it's
	neumerical inherers qualitative doctor is
	defailed us its words and descriptions-
	(d) Assess the reliability and validity of the subjective quantitative measure you created.
	(d) Assess the reliability and validity of the subjective quantitative measure you created. The sumple size of (4 marks) 10 is too smoul it should be increased to increase the reliability. Reliability: (00 as
	It has low reliability. This is where the the experiment would be conducted again would it have
	superiment would be conducted again would it have sumples i'z
	Validity: 100 validity, this refer to the experiment measurain
	what its supposed to. The small sample size reduces the validity as 10 participants great enough to make accurate concusions. Sample size should be
	validity as 10 participants great enough to
	increased to increase the validity
	161CV

2 control around

- 5. Imagine we were going to run this study again but with the feature identified in 2 (b) (i) and a larger sample with the target population being high school students in Western Australia.
 - (a) Assess which sampling technique would be most appropriate to get a representative sample of all students in Western Australia. (3 marks)

Convienence sampling. This is where

the participants are thosen due to convience and

allersiniting. The properimenter could get participants

from afew schools who are studing the year to

Ator psuchology course different schools for

(b) You have already written a standardised procedure in a report that could be used in the future study. Explain the purpose of having these in the study. (3 marks)

This is done so if the study was to be replicated, the individuals replicating it could see what we did exactly and improve their study or build on if or ux it as a foundation. This also minimises the effects of the extraneous and confounding variables.

(c) Suggest how you would minimise the effects of extraneous and confounding variables other than having a standardised procedure. (3 marks)

have move control variables. These could be mining all participants don't have anxiety, depression or mentalilhos. This would As these affect the result, miniming those vanables would make the study more accorded and reduce extraneous and confounding variables.

#

(d) Explain how you would address two ethical considerations.

(6 marks)

one: Right to withdraw-I would include a consent form that mentions the purpose, aim, any risks good as sociated with the experiment and as well as letting them know they can leave at any time without consequences or Judgement. This about allow participants to feel sufe:

Two: Confidienty-I would not use participants toal names. and I would use numbers such as Pi, Pz, Pz to keep their identity safe.

This way other participants won't know who is who and Further protect the participants wights. The data will be kept safe and secure.