

PSYCHOLOGY ATAR - YEAR 12 2024

Unit 4

Task 7: Sleep Validation

Layla Keep

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	
			Total	41	

study must

be repeated moultiple

of daya that can be

10000

78 ACCOUNTS

1000

research line

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

(6 marks)

Willy In Condusion, this investigation found that there a conistent overall increase in the cognitive functioning, Sleep amount and sleep quality experienced by participants. Cognitive functioning increasing by 0.9410, sleep amount increasing by 1.2 hours and quality of sleep increasing & Dogan by 1.4/10 with the presence of mobile phone restrictions for 30 minutes prior to sleep. These findings are similar to me findings Of the et al., 2020 study using similar cognitive functionings and sleep quality and amount He et al., also found an increase in the cognitive functionings and sleep amount and quality with the presence of mobile phone restrictions, however these results are more significant due to a longer time period of conduction. The vesults of the investigation cannot be generalised due to the small population and nave goor validity due to the snort conduction period, proving similarity to sleep studies but ultimately insignificant.

4.	The	e 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)
		In the study a strength of using subjective
		quantitative measures being self-report assesments is
		that it was the days they is east effective for researcher.
	(b)	Suggest how qualitative data could be collected in a future study. (4 marks)
		A series of questionarves could be supplied as well that
		contain prompts asking about factors that could be used
		to obtain qualitative data e.g. was their any unusal
		distruptions prior to sleep , expain. or identity it
		any external stressors were present that could limit steep.
	(c)	Explain how qualitative data addresses a limitation of quantitative data. (2 marks)
		Qualitative data allows for the consideration of personal
		reasoning and perspective, which is a limitation of quanitative
		data as it doesn't account for that.
	(d)	Assess the reliability and validity of the subjective quantitative measure you created. (4 marks)
		Reliability: The subjective measure that was created is
		veliable in this investigation as it can be easily
		replicated by AMA other researchers and provide similar data
		Validity: The validity of the subjective quantitative
		measure was poor as it was open to personal interpretation

- 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)

Random sampling would be best as the technique doesn't allow for bias giving each individual in the population an equal chance of being chosen for the either control or experimental orang study! creating a more equal and representative sample of students in WA.

(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)

The purpose of naving these in the study is so that
the reliability of the study improves and to MASSIMA

MAG allow for easy replication of study's without the
Changing of Phrocedure of between study's or Participants.

and Provides similar data if replicated.

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

To minimise confounding and extraneous variobles & the test could be conducted while every participant is healthy,

while there is limited external stressors and the implement the creation of a similar sleep environment to the best of the participants ability to reduce the effects of these things on the data.

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

(6 marks)

One: Informed consent: an informed cosent form would be delivered to all participants (or pavent | gaurdian it under 18) detailing the purpose of the study, what the study entails, participant rights, costs and benefits of the study to be completed in written form giving permission | consent for participation in the study:

Two: Confidentiality: all data collected would remain

Around anonomys, with no details of private information or any indication of who the participant is, instead each participant will be assigned a number at random to their data, and all names would be kept out of any formal publication.