

PSYCHOLOGY ATAR - YEAR 12 2024

Task 7: Sleep Validation

Tiffany

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	
	41				

Par	rt B	(41 marks)				
1.	Identify the following variables in your study.	(3 marks)				
Independent						
	Device used before hed					
	Dependent					
	Cognitive fuction throughout the clay (mood, attention	(tetc)				
	Controlled					
	time without device					
2.	The study you have conducted uses experimental design.					
	(a) Outline why it is considered experimental research.	(2 marks)				
	its an experimental research because the e	xfer newser				
	manipulates also the variables labeta, and meas	ves with				
	independent va hables.					
	(b) (i) Identify one feature of experimental research that is missing from this	s study.(1 mark)				
	Long todatal Control group					
	(ii) Explain why experimental research should have this feature.	(2 marks)				
	To see wether or not the measurement meas	ire what				
	il supose to neason (sad unlidity), it is als	o to				
	Compare the measure the impact when independ	land Variable				

is not exposed to the porticipant.

3.	Formulate an evidence-based conclusion that explains your findings using psychological
	theories and concepts. (6 marks)
	in conclusion the hypothesis is sufforted, where
	it is hypothesised that straelolescent who justicet
	Matter device Zo minute of device usage have a highen
	Cognitive faction throughout the day measured by self report
	likert scale out of 10. With the Evidence of increasing
	Sleep quality, Cognitive faction and mood. Especial
	freshe average of cognitive fration through of 3 block
	day are 6.54, 6.54 and 6.79 (wednesday, thursday and
	finder respectively) this Storagest if the experiment being
	de extended to longer time period, a significant
	nesit would be exposed.

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)
	Using Subjective quantitative measure allows the
	deto to be calculated and mathematically measure
	the data, so its easier to compare.
	(b) Suggest how qualitative data could be collected in a future study. (4 marks)
	using interview data collections where Participent is
	faced with a sed set of question about their sleep.
	There for grantitaine de ta could be collected to
	mersive the independent variable.
	(c) Explain how qualitative data addresses a limitation of quantitative data. (2 marks)
	Aux Patricia qualifative duta could coldresses a linitation
	of greatestates data not tem deeply measure the independent
	behind the nymber, allows experimenter unelistend more of the convictions
	(d) Assess the reliability and validity of the subjective quantitative measure you created. (4 marks)
	Reliability: it is easier to get a consistents result using
	Subjective quantitative as us con since espage compare the
	increasing lecreasing number.
	Validity: it measures what is structed intended to measure,
	whing subjective quantitative as it the participent abstract
	their independent variable them self(self report).

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, every one get the compete to or probability
	to get pickedlassign to either Control group or expanses
	group to minimise the probability on location impacting the
	regult.
	(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)
	to make suns everyone is not go hown accidentally
	newally and physically. it is also eventes a highen
	reability to the Study allowing the Study to be
	beplicate exister and cheates similar result
	(c) Suggest how you would minimise the effects of extraneous and confounding variables other than having a standardised procedure. (3 marks)
	than by Changing the Measurement with N-back
	test, a subjective quantitative measurement that attends
	minimize the extraneus and Conformaling variables of
	lying in the self report due to demand characteristic
	or experimenter effect.

Changing Combe Chance Chance Chance

(d)	Explain	how	you	would	addr	ess	two	ethical	considerati	ons.
			1			4				

(6 marks)

One: Con violential and privacy, when Data is collected

name less / anonymouse to keep the participant's Privacy

Secure. and the data then is not leaked to other people

beside the nessesary People that is involves to the study.

Two: another one is consent form where forticipant under

18 must get permission from a grandian, while 18t age

are allow to sign the consent form independently, in the consent

form it is written the procedure/nethod, aim/purpose and

the impact after the experience; informing the participant about

the experiment.