Katie. Russell



PSYCHOLOGY ATAR – YEAR 12 2024 Unit 4

Task 7: Sleep Validation

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	

1.	Identify the following variables in your study.	(3 marks)
	Independent	
	The restricted 30 minutes of no electric screen time before bed. Dependent	
	The quality and quantity of sleep and cognitive of the in participants, recorded.	ie function
	The self Assessment survey given to eve	ry Participant.
2.	The study you have conducted uses experimental design.	
	(a) Outline why it is considered experimental research.	(2 marks)
	we were manipulating variables to ob	serve and
	test it's the effects on other variables	
	drawing correlations. We were condu	cting an
	experiment in order to pursue this.	
	(b) (i) Identify one feature of experimental research that is missing from this	s study.(1 mark)
	(ii) Explain why experimental research should have this feature.	(2 marks)
		

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

(6 marks)

It is evident that the restriction of screen time highly beneficial ality, quantity and acts circadian function sleep hormone melatonin. The circadian prompts awaking dark/light, the circadian firedness. alertina brain act a difficulty to sleep.

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)
		It was an efficient method of collecting
		WO
	(b)	Suggest how qualitative data could be collected in a future study. (4 marks)
		Conducting interviews and collating personal
		le experienc
	(c)	Explain how qualitative data addresses a limitation of quantitative data. (2 marks) Quantitative data is limited in explaination
		Quantitative data is limited in explaination of the results and lacks depth and
		pit is purely numberical,
	(-IV	avalitative is more thorough and informative
	(a)	Assess the reliability and validity of the subjective quantitative measure you created. (4 marks)
		Reliability: The results were consistent, however
		the reliability could be questioned as the study was over a very limited time span.
		stude was over a very limited time span.
		Validity:

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 WOW WOUL diverse representation (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) procedure the experiment to be able to (c) Suggest how you would minimise the effects of extraneous and confounding variables other than having a standardised procedure. (3 marks) consideration the participants as some disorders insomia data and sleep related

more

extraneous & confounding

'acurate

reflect

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

(6 marks)

upheld the data sheets shouldn't be labelled with a name, all data is deidentified and then once data is collected, and utilised and there is no use anymore it is destroyed / shredded to safeguard the personal industry of participants a two: Ensuring the participants are debriefed protections and aware of the experiment and its proceedings and are getting signed consent from from the participants and or guardians to ensure the participants and consent from from the participants and or guardians to ensure the ensure informed consent.