	Section C	Do ou
	Research methods	
	Answer all questions in this section.	
	A psychologist wanted to investigate whether exercise would affect stress levels in 15-year-olds. Previous research into the effects of exercise on stress in teenagers had shown that exercise decreased stress levels.	
	The psychologist decided to use a repeated measures design to investigate the effects of exercise on stress levels in 20 15-year-old students. All the students were approaching their end-of-year exams.	
	For Condition A , students were required to complete a 2 km run during their morning breaktime each school day for one week.	
	In Condition B , students continued their normal activities in the playground during their morning breaktime each school day for one week.	
	At the end of each week of the investigation, for both Condition A and Condition B , each student was asked to rate their levels of stress on a rating scale of $1-10$, where the higher the self-reported rating the greater the stress levels.	
1 0	Which of the following types of hypothesis is not appropriate for the psychologist to use in their study?	
	Shade one circle only.	1
	A Directional hypothesis	
	B Non-directional hypothesis	
	C Null hypothesis	
	D One-tailed hypothesis	



Do not write outside the 1 1 Explain why a repeated measures design was more appropriate than an independent box groups design in this study. [2 marks] like workload Participant variables or overthinking could a difference between wordshop A and cond have created stress levels it an independent 13 by attung grou Repeated measures absign was used. enert such vareables, increasing validity. To improve the validity of the findings, the psychologist counterbalanced the students across the experimental conditions. 1 2 Describe how the psychologist could have counterbalanced the students across the experimental conditions. [3 marks] allocate les participants The psychologist could to one geoup and the other ten to a separa up do the zkm quant hrsm hast tollourd normo auntel The other group will do these task At the end of each week, each group sterry levels Students self-reported their stress levels on a scale of 1-10. 1 3 Explain how this might have affected the validity of the data collected. [4 marks] Validity could be inviesed as participants shees livels experienced by them. They would are internally able h besthow stressed they felt. However report could diveged participant as It over The aure levels report ot 12 week acuratly suffer their experience



Turn over 🕨