

Past-paper walk-through

Intelligence and Achievement ■ 2.8

eXercise

Questions in this set

- 2024 Set 2 Q2 ■ 7 marks

Reading the mark scheme

- **B1** a mark that stands on its own – the point is either made or not.
- **M1** a *method* mark: the right approach, even if the number is wrong.
- **A1** an *answer* mark, and it usually needs its M mark first.
- **C1** a working mark on the way to the answer.
- **//** separates answers the examiner accepts equally.
- **ecf** = error carried forward: a later part is marked on your own earlier answer.
- **owtte** = “or words to that effect” – the wording need not match.

Question 2

2024 Set 2 ■ Q2 ■ 7 marks

Research Design. Dr. Dawson is a psychologist who believes that students who read motivational statements before a test will experience lower levels of anxiety as compared with students who read neutral statements. To examine this belief, he conducted a study. In the study, he randomly assigned half of the participants to read motivational statements and the other half to read neutral statements. Immediately after reading the statements, all of the students completed a survey about their current level of anxiety (1 = low; 8 = high) and then took the test. Dr. Dawson found statistically significant results that are depicted in the graph.

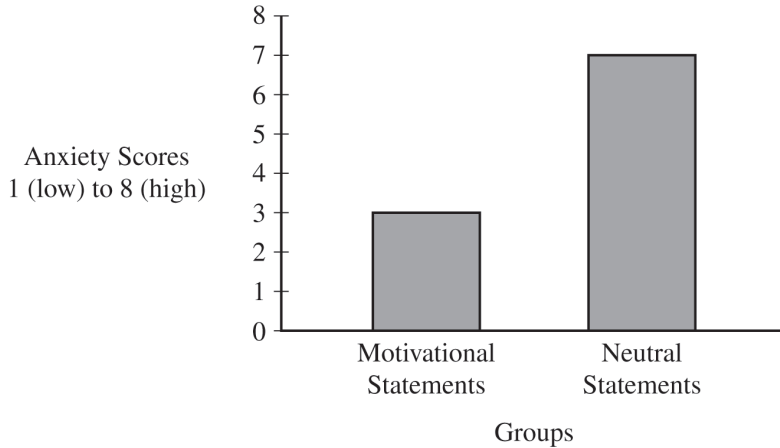
Part A ■ State a valid operational definition of the dependent variable in this study. ■ Identify the control group in this study. ■ Explain why the study would be considered an experiment. ■ Explain how the results of the study do or do not support Dr. Dawson's hypothesis.

Part B The test Dr. Dawson gave was a vocabulary test. Explain how the following

Question 2

terms might relate to the students who performed poorly on the test in this study. ■
External locus
of control ■ Stage one of Selye's general adaptation syndrome ■ Crystallized intelligence

Question 2



Solution 2

- Research Design, 7 points. Points — State a valid operational definition of the dependent variable in this study. — Response must indicate that anxiety is defined by their score on the scale/survey of their anxiety. | Identify the control group in this study. — Response must indicate that the control group is the group that reads the neutral statements. | Explain how the results of the study do or do not support Dr. Dawson's hypothesis. — Response must indicate that Dr. Dawson's hypothesis is supported because either the motivational statement group had lower anxiety or the neutral statement group had higher anxiety.
- General notes: spelling and grammar do not reduce a score; a definition alone does not earn a point, the concept must be applied to the scenario.