Inferential Statistics questions: Second year

Q41

Two psychologists designed an experiment to test the effects of using a hands-free

phone on drivers’ attention. They recruited a sample of 30 experienced police drivers and

asked them to take part in two computer-simulated driving tests. Both tests involved

watching a three-minute film of a road. Participants were instructed to click the mouse as

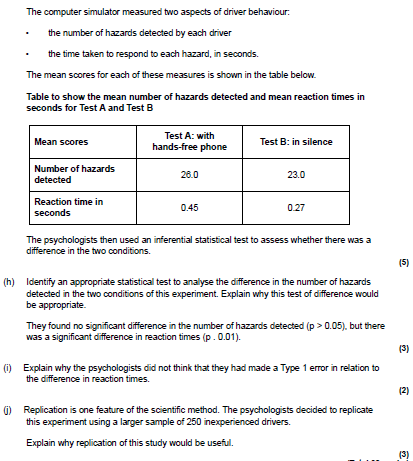
quickly as possible, when a potential hazard (such as a car pulling out ahead) was spotted.

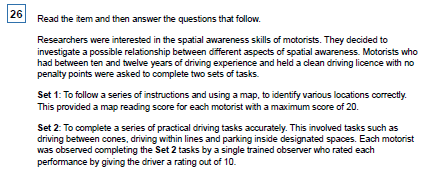
Each participant completed two computer-simulated driving tests:

• Test A, whilst chatting with one of the psychologists on a hands-free phone

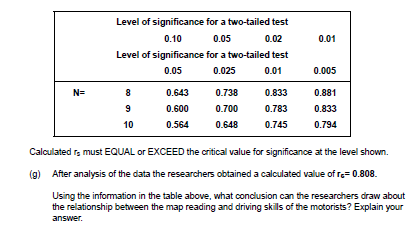
• Test B, in silence, with no distractions.

The order in which they completed the computer tests was counterbalanced.

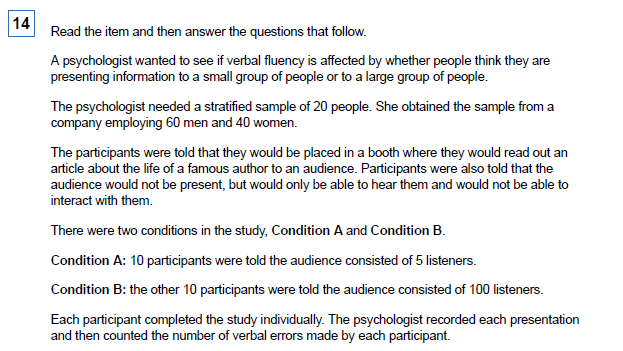


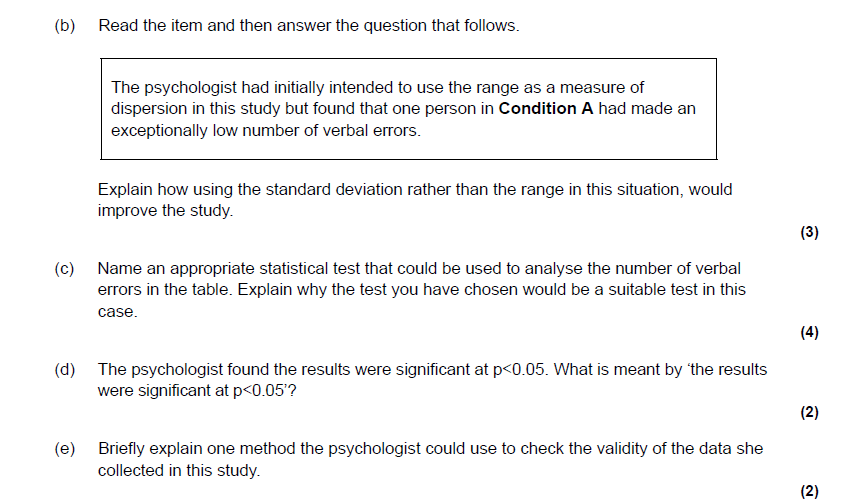


f) The researchers decided to analyse the data using a Spearman’s rho test. Explain why this is a suitable choice of test for this investigation. (3 marks)



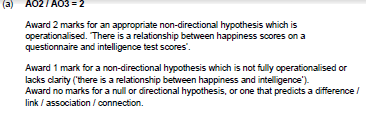
(4 marks)

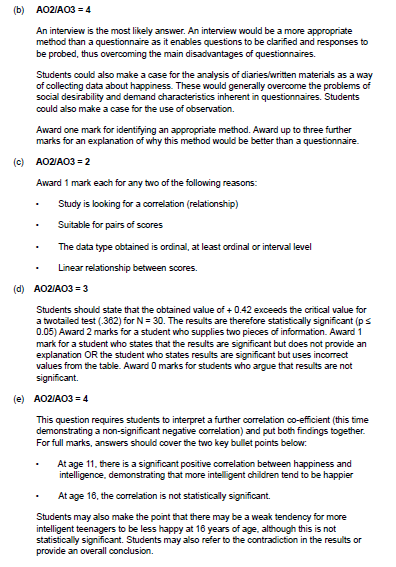




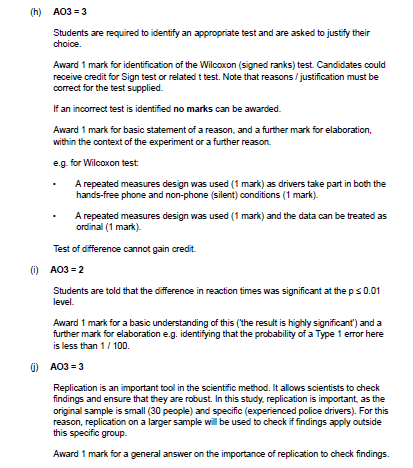
**Mark Schemes**

**Q54**

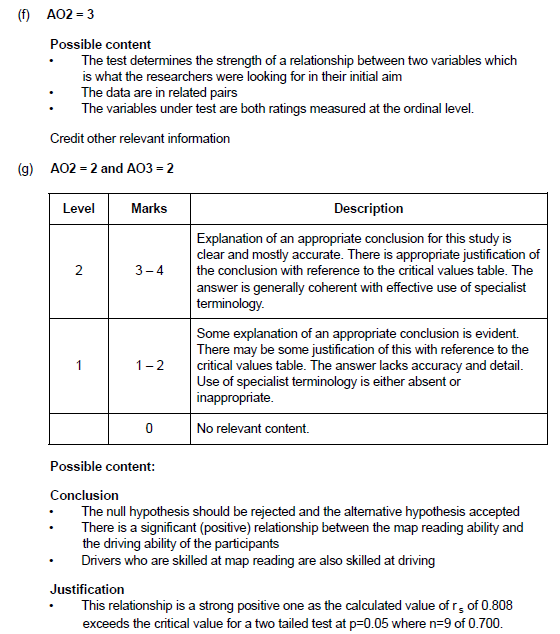




Q 41



Q26 f and g



Q 14

