

Question 4

Researchers investigated whether people's perception of their own memory ability was accurate or not. Participants completed a questionnaire on which they reported their memory performance in a variety of everyday contexts and also made judgements about the reliability of their own memory by responding on a Likert scale to statements like, "My memory is poorer than most people's." The scale was constructed so that a higher score meant the respondent perceived themselves as having a better memory. The participants also completed a memory test in which they were read a word list and immediately were tested on free recall of the list. The researchers wanted to know if there was a relationship between the two measures.

Table 4 - Scores on the memory ability questionnaire and the the memory test.

Participant	Memory ability questionnaire score	Memory test score
1	15	20
2	19	21
3	32	48
4	7	15
5	31	19
6	9	8
7	14	18

- State an alternative hypothesis for this study. (2 marks)
- Plot a suitable graph to display the results in Table 4. (3 marks)
- State which statistical test should be used to analyse the results in Table 4. (1 mark)
- Explain one weakness of using correlational investigations in psychology. (2 marks)