

RMS Practice Question

Researchers recruited a random sample of group of A Level students from a school sixth form. They asked the participants to complete a quantitative questionnaire measuring students' attitudes towards doing practice questions. The questionnaire was administered immediately prior to the students' mock exams. After the mock exam results were issued, the students were asked to complete the questionnaire again.

1. Explain why a repeated measures participant design was appropriate for use in this study.
2. Explain one disadvantage of using a repeated measures design in this study.
3. Describe how the researchers could recruit a sample for this study.

The researchers obtained the results in Table 1.

Table 1 - Students' attitudes towards doing practice questions before and after mock exams.

Participant	Attitude before	Attitude after
1	21	22
2	26	28
3	14	13
4	17	20
5	27	19
6	14	18
7	6	18
8	19	20
9	21	23
10	13	10

4. Draw a graph or chart to display the results in Table 1.
5. Explain which statistical test would be appropriate to analyse the results in Table 1.
6. Calculate the appropriate statistical test for this study.
7. Explain whether the researchers should accept or reject their null hypothesis.