Worked answers | Statistics

Survey investigations

6 questions | 11 marks

Equivalent correct methods earn the corresponding marks.

1. Write a clear one-choice survey question about favourite classroom reading places. [2 marks]

Equivalent clear questions with defined choices are valid.

Answer: For example: “Which reading place do you prefer: a desk, the mat or a beanbag? Choose one.”

2. List the stages of a small survey in order. [2 marks]

Planning precedes collecting and conclusions follow the data.

Answer: Question and plan; collect; check/organise; display; interpret/report.

3. Use the supplied game table to find the total responses. [1 mark]

Practice survey

Game	Votes
Chasey	7
Skipping	5
Handball	4

7 + 5 + 4 = 16.

Answer: 16.

4. For those game counts, how many more chose Chasey than Handball? [1 mark]

Practice survey

Game	Votes
Chasey	7
Skipping	5
Handball	4

$7 - 4 = 3$.

Answer: 3.

5. Twenty classmates are asked, but only 18 answer. Should the report say 20 responses? Explain. [2 marks]

People asked and valid responses are not always the same.

Answer: No. Report 18 responses and note 2 missing answers.

6. Plan a small survey with a question, group, recording method and suitable display. [3 marks]

The group should match the question, categories should be clear, and totals should be checked.

Answer: Many valid plans exist; for example favourite fruit, all classmates, one vote each in a tally table, then a column graph.