

Name: _____

Date: _____

Score: _____ / 15

Collecting Data & Samples

Fair survey questions, samples, and telling primary from secondary data.

Sample a smaller group that represents the whole	Fair question neutral, clear	Primary you collected it	Secondary someone else did
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Section A — Interpreting a Survey

Answer each question.

- Survey 30 students, 12 chose pizza. What fraction chose pizza?
- What percent chose pizza?
- If 200 students were surveyed at the same rate, how many would choose pizza?
- Is a sample of 5 students enough to represent a school? Explain.

Section B — Fair Questions

Explain your thinking.

- Is "What is your favourite subject?" a fair question?
- Is "Do you agree maths is the best subject?" fair?
- Name one way to make a survey fair.
- Why survey a random sample?

Section C — Primary or Secondary?

Write primary or secondary.

- Primary or secondary data: you count cars yourself.
- Primary or secondary data: you use a government report.
- Primary or secondary data: you interview classmates.
- Primary or secondary data: you copy figures from a website.

Section D — Working with Tallies

Show your thinking.

- Tally of 24: Red 9, Blue 7, Green 8. Order from most to fewest.
- What fraction chose Blue?
- Roughly what percent chose Green?

Collecting Data & Samples — Answer Key

For marking. Accept equivalent correct forms.

Section A — Interpreting a Survey

1. $12/30 = 2/5$ 2. 40% 3. 80
4. No - too small to be reliable

Section B — Fair Questions

5. yes - clear and neutral 6. no - it leads the answer
7. ask a large, random group the same neutral question 8. so every person has an equal chance of being chosen

Section C — Primary or Secondary?

9. primary 10. secondary 11. primary
12. secondary

Section D — Working with Tallies

13. Red, Green, Blue 14. $7/24$ 15. about 33%
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