CHOOSING THE RIGHT CHART · PART 8 OF 8 · AGES 11–16

Charts Quiz

Ten questions on the whole series. Answer them all, then turn the page round to check.

1 You want to compare how many students chose each of five sports. Which chart fits best?

- A Line graph
- B Bar chart
- C Scatter graph
- D Histogram

2 Which chart is best for showing how a town's average temperature changed month by month over a year?

- A Pie chart
- B Pictogram
- C Line graph
- D Stacked bar chart

3 Why do the bars of a histogram touch?

- A To save space
- B The data is on a continuous scale
- C There are too many classes
- D Every bar is the same height

4 A pie chart shows the answers of 24 students. How many degrees stand for one student?

- A 10°
- B 15°
- C 24°
- D 36°

5 A journey takes exactly 10 minutes. Which class does it belong in?

- A $5 \le t < 10$
- B $10 \le t < 15$
- C Both classes
- D Neither class

6 On a scatter graph, as one value increases the other decreases. What is this called?

- A Positive correlation
- B Negative correlation
- C No correlation
- D An outlier

7 Which of these is continuous data?

- A Number of pets
- B Shoe size
- C Favourite colour
- D Time to run 100 m

8 Why does an energy bill compare this January with last January, not with last July?

- A January bills are cheaper
- B July has no data
- C It allows for the seasons
- D Bills must use 12 bars

Use this chart for questions 9 and 10



Invented example data: books read by two classes in one term.

9 Using the chart, how many more books did Class B read than Class A?

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10 Class B's bar looks three times as tall as Class A's. Explain why this is misleading and how to fix it.

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ANSWERS

1. B: Bar chart (separate categories)
2. C: Line graph (change over time)
3. B: The data is on a continuous scale
4. B: 15° (360 ÷ 24)
5. B: $10 \le t < 15$
6. B: Negative correlation
7. D: Time to run 100 m (it is measured)
8. C: It allows for the seasons
9. 8 books (52 − 44)
10. The axis starts at 40, so the bars show only 4 and 12. B read about 18% more, not 3 times as many. Start the axis at 0.

SERIES COMPLETE

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