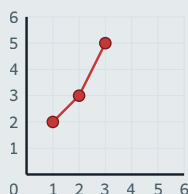


Trend graphs and reading line graphs

MODULE 9 · DATA AND CHANCE REVIEW

A **trend (line) graph** shows how something changes over time. The line's slope shows whether it is rising or falling.



→ A rising line means an increase; a flat line means no change.

HOW TO ANSWER TODAY

- **Y-axis scale.** Pick a step that makes the tallest bar fit but isn't so small the chart is huge.
Tallest = 75 → use steps of 10 (about 8 grid lines), not 1 (75 lines)
- **Read a bar chart.** Read the top of each bar. Check the y-axis scale to see what each grid line is worth.
Each grid line = 5, bar reaches the 4th line → value is 20

WARM-UP

- 1 5th class did a survey of how pupils travel to school each day, and the most popular way had 8 pupils. Cian is drawing a bar chart of the results and needs to choose a y-axis step of 1, 5 or 10 so the chart shows about 10 to 15 grid lines from 0 to the top of the largest bar. Which step should he pick?

You are drawing a bar chart and the largest bar will be 8. Choose a sensible y-axis step from 1, 5 or 10 so the chart shows about 10 to 15 grid lines from 0 to the top.

- 2 5th class made a bar chart of their favourite fruits for the school health week display. The chart shows Apple: 9, Pear: 26, Orange: 24 and Banana: 16. Which fruit was the most popular in the class?

A bar chart shows favourite fruit in a class.
Apple: 9, Pear: 26, Orange: 24, Banana: 16.
Which fruit was most popular?

PRACTICE

- 1 Aoife is drawing a bar chart in her maths copy to show the reading-test scores for 5th class across the term. The highest score on any bar will be 34. She wants the chart to have about 10 to 15 grid lines from 0 up to the top. Should she use a y-axis step of 1, 5 or 10?

You are drawing a bar chart and the largest bar will be 34. Choose a sensible y-axis step from 1, 5 or 10 so the chart shows about 10 to 15 grid lines from 0 to the top.

- 2 5th class did a survey of favourite fruits and made a bar chart. The results were Apple: 9, Pear: 26, Orange: 24 and Banana: 16. By how many votes does the Pear bar differ from the Orange bar?

A bar chart shows fruit preferences in a class. Apple: 9, Pear: 26, Orange: 24, Banana: 16. By how much does the Pear bar differ from the Orange bar?