

Trend graphs and reading line graphs

MODULE 9 · DATA AND CHANCE DATA & CHANCE

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

STRETCH PROBLEMS

- 1 5th class are drawing a bar chart of the rainfall logged on the school weather chart over a fortnight. The wettest day measured **37 mm**. They need to choose a sensible step for the y-axis from **1**, **5** or **10** so the chart shows about **10** to **15** grid lines from **0** up to the top. Which step should they pick?
- 2 Mr Ó Briain made a bar chart of favourite fruits in 5th class. The bars show Apple: **29**, Pear: **10**, Orange: **27** and Banana: **17**. By how much does the Orange bar differ from the Pear bar?
- 3 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**?
- 4 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?
- 5 Saoirse's class made a bar chart of their favourite fruits for a healthy-eating survey. Apple got **23** votes, Pear got **32** votes, Orange got **11** votes and Banana got **34** votes. By how many votes does the Orange bar differ from the Pear bar?