

Posing statistical questions and collecting data

MODULE 9 · DATA AND CHANCE REVIEW

HOW TO ANSWER TODAY

- **Tally marks.** Tally marks come in gates of 5. Count gates \times 5, then add the singles.
3 gates + 2 singles $\rightarrow 3 \times 5 + 2 = 17$
- **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 \rightarrow value is 20

★ STRETCH PROBLEMS

- 5th class do a science investigation timing how fast water trickles through three types of soil. The frequency table shows 21 trials with sandy soil, 13 trials with clay soil and 7 trials with garden soil. How many trials did the class run in total?
A frequency table for a class survey has 3 rows with these counts: 21, 13, 7. What is the total number of responses across all rows?
- The whole school ran a favourite-fruit survey for healthy-eating week and put the results on a bar chart in the hall. Apple got 13 votes, Pear got 37, Orange got 24, Banana got 11 and Plum got 21. How many pupils took part in the survey altogether?
A bar chart shows fruit preferences in a class. Apple: 13, Pear: 37, Orange: 24, Banana: 11, Plum: 21. How many pupils took part in total?
- 5th class ran a fruit survey across the whole school for Healthy Eating Week. Their bar chart shows Apple: 20, Pear: 30, Orange: 37, Banana: 11, Plum: 40. How many pupils took part in the survey in total?
- Mr Ó Sé surveys 5th class to find out how many pupils are taller than 1.4 m. He records 12 pupils in his tally chart. How many complete groups of 5 (gate marks) will the tally have, and how many extra single marks?
A class survey records 12 responses for one option. How many groups of 5 (gate marks) will the tally have, and how many extra single marks?
- Mr Ó Briain's 5th class made a bar chart of favourite fruits for their healthy-eating display. The bars show Apple: 27, Pear: 19, Orange: 34 and Banana: 28. By how much does the Pear bar differ from the Orange bar?
A bar chart shows fruit preferences in a class. Apple: 27, Pear: 19, Orange: 34, Banana: 28. By how much does the Pear bar differ from the Orange bar?