

Posing statistical questions and collecting data

HOW TO ANSWER TODAY

- **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

- **Tally marks.** Tally marks come in gates of 5. Count gates $\times 5$, then add the singles.

3 gates + 2 singles $\rightarrow 3 \times 5 + 2 = 17$

 STRETCH PROBLEMS

- 1** 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?

- 2 5th class made a bar chart of points scored by each team at the Cumann na mBunscol hurling blitz. The Shamrocks scored 17, the Harps scored 30, the Gaels scored 18, the Rovers scored 19 and the Celts scored 32. How many points were scored in total across the blitz?

- 3 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?

- 4 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?

- 5** Mr Ó Briain keeps a frequency table of reading-test scores for 5th class across the term. **19** pupils scored in the lowest band, **13** in the middle band, and **16** in the top band. How many pupil scores are recorded in the table altogether?

● INVESTIGATE

Survey the class

Think of a question worth asking your class where the answers will **vary**. Plan how to collect the data fairly, gather it, and decide the best way to show what you found.