Data and chance investigation — survey and show

MODULE 9 · DATA AND CHANCE DATA & CHANCE

HOW TO ANSWER TODAY

- **Tally marks.** Tally marks come in gates of 5. Count gates × 5, then add the singles.
  3 gates + 2 singles → 3 × 5 + 2 = 17
- **Chance words.** Choose from: impossible · unlikely · even · likely · certain.
  Sun rising tomorrow → certain · Coin landing heads → even
- **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. Mr Ó Briain runs a daily question for 3rd class and writes the results in a frequency table. The three answer choices got **16**, **16** and **7** votes across the week. How many responses are there in total?

   > A frequency table for a class survey has 3 rows with these counts: 16, 16, 7. What is the total number of responses across all rows?

2. During a probability lesson, Oisín's group flips a fair coin during their maths investigation. How likely is the event of flipping **5** heads in a row with a fair coin? Choose one: impossible, unlikely, even, likely, certain.

3. In Ms Walsh's 3rd class maths investigation, Aoife is talking about chance events with her group. They discuss the next baby born in the local hospital being a boy. Is this event impossible, unlikely, even, likely or certain?

   > How likely is this event: the next baby born being a boy? Choose one of: impossible, unlikely, even, likely, certain.

4. Tadhg and Aoife play a dice game in 4th class during indoor break. Tadhg rolls a standard die two times and wants to get at least one **6**. How likely is this event? Choose one: impossible, unlikely, even, likely, certain.

   > How likely is this event: rolling at least one 6 in two rolls of a standard die? Choose one of: impossible, unlikely, even, likely, certain.

5. Ms Ní Cheallaigh's 4th class made a bar chart of books read by each child during the October reading challenge. The chart shows Apple group: **13**, Pear group: **37**, Orange group: **24**, Banana group: **11**, Plum group: **21** books. How many books did the class read in total?

   > 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?