Testing chance with dice and spinners

MODULE 9 · DATA AND CHANCE DATA & CHANCE

HOW TO ANSWER TODAY

- **Chance words.** Choose from: impossible · unlikely · even · likely · certain.
  Sun rising tomorrow → certain · Coin landing heads → even
- **Tally marks.** Tally marks come in gates of 5. Count gates × 5, then add the singles.
  3 gates + 2 singles → 3 × 5 + 2 = 17

STRETCH PROBLEMS

1. 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.

2. Ms Murphy's 4th class are talking about chance during maths. She asks them about the next baby born 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.

3. 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.

4. 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?

5. Mr Murphy's 4th class are talking about chance during maths. He asks them how likely it is that a randomly chosen pupil in a class of **30** will be left-handed. Choose one word: impossible, unlikely, even, likely, or certain.

   > How likely is this event: a randomly chosen pupil in a class of 30 being left-handed? Choose one of: impossible, unlikely, even, likely, certain.