

Testing predictions 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

★ STRETCH PROBLEMS

- 1 At the school summer fair, Cian picks one pupil at random from a 4th class of **30** to spin the wheel. How likely is it that the chosen pupil is left-handed? Choose one: impossible, unlikely, even, likely, certain.
- 2 Mr Byrne's 4th class has **30** pupils. He picks one pupil at random and checks if that pupil is left-handed. Is this event impossible, unlikely, even, likely or certain?
- 3 At the school summer fair, Oisín runs a game with a bag holding **1** red counter and **9** blue counters. A player wins a prize if they pick a red counter. How likely is it to pick a red counter: impossible, unlikely, even, likely, or certain?
- 4 At the sports-day prize stall, Oisín rolls a standard die to see which prize he wins. How likely is he to roll a **6**? Choose one of: impossible, unlikely, even, likely, certain.
- 5 In the maths corner, Oisín flips a fair coin to decide who goes first in a game. Using the words impossible, unlikely, even, likely or certain, how likely is the coin landing heads?

● INVESTIGATE

Put a prediction to the test

Before you start, write a prediction: in 30 rolls of a fair six-sided die, about how many times should each face appear? Roll, tally, and compare. Was your prediction close? What might change if you rolled **100** times?
