Experimental probability, predictions and review

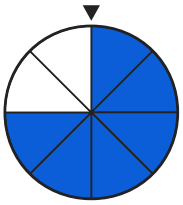
MODULE 9 · DATA AND CHANCE DATA & CHANCE

HOW TO ANSWER TODAY

- **Probability.** Probability = outcomes you want ÷ total outcomes. Write as a fraction, decimal, or percent.
  Spinner with 4 equal parts, 1 red → 1/4 = 0.25 = 25%
- **Chance words.** Choose from: impossible · unlikely · even · likely · certain.
  Sun rising tomorrow → certain Coin landing heads → even

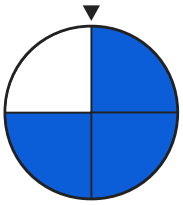
STRETCH PROBLEMS

1. Saoirse makes a spinner for a classroom game in 6th class. It has **8** equal segments and **6** of them are red. What is the probability that the spinner lands on red? Give your answer as a percent.



6 of 8 shaded

2. In a 6th class probability lesson, Cian spins a spinner with **4** equal segments. **3** of the segments are red. What is the probability of landing on red? Give your answer as a percent.



3 of 4 shaded

3. On a wet PE day, 6th class stay indoors and play a board game in the hall. Tadhg is about to roll a standard die. How likely is rolling a number less than **6** on a standard die? Choose one of: impossible, unlikely, even, likely, certain.

4. On a wet PE day, 6th class stay indoors and play a counter game. The bag holds **1** red counter and **9** blue counters. How likely is it that Saoirse picks a red counter from the bag? Choose one of: impossible, unlikely, even, likely, certain.

5. Cian is playing a board game with friends in 6th class and needs an even number on a standard die to move. How likely is rolling an even number on a standard die? Choose one of: impossible, unlikely, even, likely, certain.