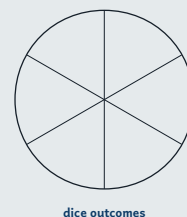


Experimental probability, predictions and review

MODULE 9 · DATA AND CHANCE REVIEW

Experimental probability comes from actually trying it: $\frac{\text{wanted results}}{\text{number of trials}}$. More trials give a result closer to the theory.

→ Heads 47 times in 100 flips → experimental probability **0.47**.



dice outcomes

HOW TO ANSWER TODAY

- **Probability.** Probability = $\frac{\text{outcomes you want}}{\text{total outcomes}}$. Write as a fraction, decimal, or percent.

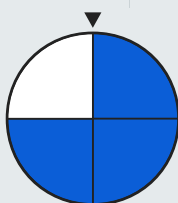
Spinner with 4 equal parts, 1 red → $\frac{1}{4} = 0.25 = 25\%$

- **Chance words.** Choose from: impossible · unlikely · even · likely · certain.

Sun rising tomorrow → certain · Coin landing heads → even

WARM-UP

1



3 of 4 shaded

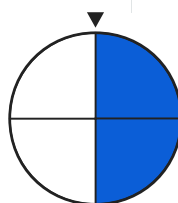
Cian runs a spin-the-wheel stall at the 5th class summer fair. The wheel has **4** equal segments and **3** of them are red. If a player wins a prize when the arrow lands on red, what is the probability of winning? Give your answer as a fraction.

- 2 In 5th class, the teacher is talking about chance words before the Christmas hamper raffle. She asks the pupils to describe how likely this event is: the sun rising tomorrow. Choose one of: impossible, unlikely, even, likely, certain.

How likely is this event: the sun rising tomorrow? Choose one of: impossible, unlikely, even, likely, certain.

PRACTICE

1



2 of 4 shaded

At the school sports day, Tadhg spins a prize wheel with **4** equal segments. **2** of the segments are red, and a red segment wins a sticker. What is the probability of landing on red, as a decimal?

- 2 Before a yard game at little break, Oisín tosses a fair coin to decide which team goes first. How likely is the event of a tossed fair coin landing heads? Choose one of: impossible, unlikely, even, likely, certain.