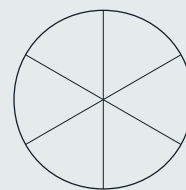


Expressing probability as fraction, decimal and percentage

MODULE 9 · DATA AND CHANCE REVIEW

A probability can be written as a **fraction, decimal or percentage** — number of wanted outcomes over total outcomes.

→ Rolling a 6 on a die: $\frac{1}{6} \approx 0.17 \approx 17\%$.



6-section spinner

A BAG HAS 3 RED AND 2 BLUE COUNTERS. WRITE P(RED) THREE WAYS.

- 1 5 counters in total, 3 red → fraction $\frac{3}{5}$.
- 2 $3 \div 5 = 0.6$ as a decimal.
- 3 $0.6 = 60\%$.

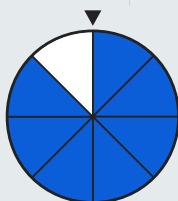
HOW TO ANSWER TODAY

- **Probability.** Probability = outcomes you want ÷ total outcomes. Write as a fraction, decimal, or percent.

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

WARM-UP

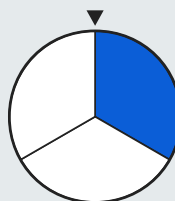
1



7 of 8 shaded

For a 5th class maths investigation, Aoife puts 8 coloured cubes into a bag. 7 of the cubes are red and the rest are blue. She picks one cube from the bag without looking. What is the probability that she picks a red cube? Give your answer as a fraction.

2



1 of 3 shaded

In a maths investigation, Saoirse has a bag with 3 coloured cubes that are all the same size. 1 of the cubes is red. What is the probability that Saoirse draws a red cube? Give your answer as a fraction.