

PROBABILITY

Exercises

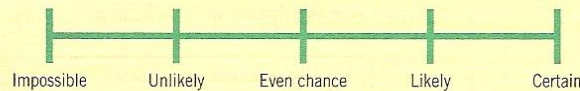
Quick Test

- Explain what probability is.
- A bag contains three red beads and two green beads. A bead is taken out of the bag at random. What is the probability that it's...
 - red?
A $\frac{2}{5}$ B 1 C $\frac{3}{5}$ D 0
 - green?
A $\frac{2}{5}$ B 1 C $\frac{3}{5}$ D 0
 - red or green?
A $\frac{2}{5}$ B 1 C $\frac{3}{5}$ D 0
- The number of outcomes when a fair die is thrown is 6. True or false?
- The probability of getting a head on a fair coin is $\frac{1}{2}$. True or false?

Skills Practice

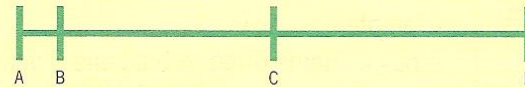
- Write down whether each of the following outcomes is 'certain', 'impossible' or 'possible':
 - You'll throw a 9 with a regular die.
 - You'll have a birthday on the same date each year.
 - Your friend will go to Mars next summer.
 - You'll receive an email from a friend tonight.

- Copy the likelihood scale below.



Mark each of these outcomes on the scale.

- It'll rain in Manchester next year.
 - The next baby born will be female.
 - You'll live until you're 300 years old.
 - The next person you'll see is famous.
- A, B, C and D are four outcomes that have been marked on this probability scale:



Write down possible outcomes that A, B, C and D could be.

- List all possible outcomes for each of the following events:
 - Spinning this spinner.
 - Picking a counter from this box without looking.



- A bag contains three red, four blue and two green counters. A counter is taken from the bag at random. What is the probability that the chosen counter is...
 - red?
 - yellow?
 - blue?
- A multipack of crisps contains two cheese and onion, four ready salted, four salt and vinegar and one smoky bacon. Thomas takes a bag of crisps without looking at the flavours. What is the probability that Thomas picks...
 - cheese and onion?
 - ready salted?
 - smoky bacon?
 - prawn cocktail?