

Practice and Revision - Probability

Chapter 23: Probability · Topic 2

Key Concept

Probability is calculated as $P(\text{event}) = (\text{number of favourable outcomes}) \div (\text{total number of possible outcomes})$.

For a fair coin toss, the probability of heads is $1/2$, since there's one favourable outcome (heads) out of two possible outcomes.

For rolling a die, the probability of getting an even number is $3/6$ (or $1/2$), since 2, 4, and 6 are three favourable outcomes out of six.

Understanding probability helps us make informed decisions and predictions in games, sports, weather forecasting, and everyday situations.

Quick Revision Notes

- Probability = favourable outcomes $\div$ total outcomes.
- Coin toss probability of heads is $1/2$.
- Die roll probability of even number is $3/6$ or $1/2$.
- 2, 4, 6 are the even outcomes.
- Probability ranges from 0 to 1.
- It helps make informed predictions.
- It's used in games and weather forecasting.
- Practice builds probability calculation skills.

Practice Questions

- 1 Calculate the probability of rolling an odd number on a die.
- 2 Calculate the probability of picking a blue ball from 4 blue and 6 red balls.
- 3 Discuss a real-life example of probability.
- 4 Flip a coin 20 times and record results.
- 5 Solve two probability problems.
- 6 Explain probability in your own words.