

Probability Scale, Sample Spaces and Basic Probability

Year 7 · Probability · y7-prob

Name: _____

Date: _____

Class: _____

Score: ____ / ____

Instructions

Answer every question in Practice. Try the Challenge section once Practice is complete. 10 questions in total.

Practice

1. A bag has 3 red balls and 2 blue balls. What is the probability of picking a red ball, as a fraction?

2. An event is certain to happen. What is its probability?

3. A fair coin is flipped. What is the probability of getting heads, as a fraction?

4. A dice has 6 faces numbered 1–6. What is the probability of rolling a number greater than 4, as a fraction?

5. A spinner has 4 equal sections: red, blue, green, yellow. What is the probability of landing on green, as a fraction?

6. A probability of 0 means an event is impossible; a probability of 1 means it is certain. What is the probability that a normal dice roll gives a number less than 7?

7. Probability = number of favourable outcomes ÷ total number of outcomes. A bag has 4 red and 6 blue balls. What is the probability of picking blue, as a fraction?

8. List all possible outcomes when flipping a coin and rolling a dice together (every coin-number pair). How many total outcomes are there?

Challenge

1. Two coins are flipped together. The 4 possible outcomes are HH, HT, TH, TT. What is the probability of getting exactly one head, as a fraction?

2. A bag has red, blue and green balls only. $P(\text{red}) = 0.3$, $P(\text{blue}) = 0.45$. What is $P(\text{green})$?
