

Find the probability of a compound event

NAME	DATE	SCORE
		/ 10

1

A coin is flipped and a number cube is rolled. What is the probability that the coin shows heads and the cube shows an even number? Write it as a fraction.

2

Two coins are flipped. What is the probability that one coin shows heads and the other shows tails? Leo says the answer is $\frac{1}{3}$, because there are 3 outcomes: two heads, two tails, or one of each. Write the correct probability as a fraction.

3

A coin is flipped and a number cube is rolled. Noah wins on heads and an even number. Maya wins on tails and a number less than 3. Which is true?

☐ The game is fair
 ☐ Noah is more likely to win
 ☐ Maya is more likely to win

4

Two coins are flipped. What is the probability that one coin shows heads and the other shows tails? Write it as a fraction.

5

Two coins are flipped. What is the probability that one coin shows heads and the other shows tails? Emma says the answer is $\frac{1}{3}$, because there are 3 outcomes: two heads, two tails, or one of each. Write the correct probability as a fraction.

- 6** Two number cubes are rolled. Maya wins if the sum is even, and Ivy wins if it is odd. Which is true?

☐ The game is fair ☐ Maya is more likely to win ☐ Ivy is more likely to win

- 7** Spinner A has 3 equal parts: red, blue and green. Spinner B has 4 equal parts: red, blue, green and yellow. Both spinners are spun. What is the probability that neither spinner lands on blue? Write it as a fraction.

- 8** Two coins are flipped. What is the probability that one coin shows heads and the other shows tails? Noah says the answer is $\frac{1}{3}$, because there are 3 outcomes: two heads, two tails, or one of each. Write the correct probability as a fraction.

- 9** A coin is flipped and a number cube is rolled. What is the probability that the coin shows heads and the cube shows a 6? Write it as a fraction.

- 10** Spinner A has 3 equal parts: red, blue and green. Spinner B has 4 equal parts: red, blue, green and yellow. Both spinners are spun. What is the probability that the two spinners land on the same colour? Write it as a fraction.

Find the probability of a compound event

1 $\frac{1}{4}$

2 $\frac{1}{2}$

3 Noah is more likely to win

4 $\frac{1}{2}$

5 $\frac{1}{2}$

6 The game is fair

7 $\frac{1}{2}$

8 $\frac{1}{2}$

9 $\frac{1}{12}$

10 $\frac{1}{4}$