

1 Write down the number of different possible outcomes for each experiment:

a Rolling a 6-sided die

6

b Flipping a coin

2

c Flipping a coin 10 times and counting the number of heads

11

d Rolling an 8-sided die

8

e Picking a name from a hat containing 10 names

10

f Picking a random letter from the word "die"

3

g Picking a random letter from the word "coin"

4

h Picking a random letter from the word "hat"

3

i Picking a random whole number from 1 to 10

10

j Picking a random whole number from 1 to 100

100

k Picking a random whole number from 2 to 10

9

l Picking a random whole number from 2 to 100

99

2. Work out the probability of the following outcomes:

a Rolling a '1' on a 6-sided die

$$\frac{1}{6}$$

b Flipping a head

$$\frac{1}{2}$$

c Flipping a tail

$$\frac{1}{2}$$

d Rolling a '1' on an 8-sided die

$$\frac{1}{8}$$

e Picking your own name from a hat containing 10 names

$$\frac{1}{10}$$

f Picking the letter 'd' from the word "die"

$$\frac{1}{3}$$

g Picking the letter 'o' from the word "coin"

$$\frac{1}{4}$$

h Picking the letter 'h' from the word "hat"

$$\frac{1}{3}$$

i Rolling a '1' or a '2' on a 6-sided die

$$\frac{1}{3}$$

j Flipping a head or a tail

$$1$$

k Rolling a '1' or a '2' on an 8-sided die

$$\frac{1}{4}$$

l Picking your own name or your best friend's name from a hat containing 10 names

$$\frac{1}{5}$$

m Picking the letter 'd' or 'i' from the word "die"

$$\frac{2}{3}$$

n Picking the letter 'o' or 'i' from the word "coin"

$$\frac{1}{2}$$

o Picking the letter 'h' or 'a' from the word "hat"

$$\frac{2}{3}$$