

## Chance and probability

Circle the correct answer.

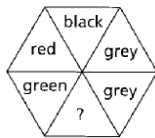
- 1 If a die is rolled, what is the chance of throwing an odd number? *Hint 1*  
 A 1 chance in 2      B 1 chance in 3  
 C 1 chance in 5      D 1 chance in 6
- 2 Which word best describes the probability of boys becoming men?  
 A impossible      B most likely  
 C unlikely      D certain
- 3 If two coins are tossed, what are the chances of getting a head and a tail?  
 A 25% chance      B 33% chance  
 C 50% chance      D 100% chance
- 4 Nell has 4 red blocks, 5 green blocks, 5 black blocks and 1 orange block in a bag. Without looking, she takes one out. What are the chances it is a red block? *Hint 2*  
 A 1 in 3      B 1 in 4  
 C 1 in 11      D 4 in 15

- 5 How many ways can this flag be coloured using the colours white, black and red once only each time?



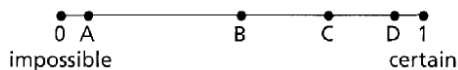
- A 1      B 3  
 C 6      D 9

- 6 Pia made this spinner. She painted it these colours. What colour should Pia paint the last section so that red has the same chance as black?



- A red  
 B black  
 C grey  
 D any colour but red

- 7 'There will be no snow on the Snowy Mountains next year.'  
 Choose the letter that best represents the position of this statement on the following number line.



- 8 Lee has a bag containing 24 marbles. They are black, white or red. Without looking, he has a 0.5 chance of taking a black marble from the bag. How many black marbles are in the bag? *Hint 3*

- A 5      B 8  
 C 12      D 19

- 9 The surf club has a chocolate wheel that has 50 numbers on it. To have a 50% chance of winning a prize how many tickets must I buy?

- A 5      B 10  
 C 25      D 50

- 10 This table shows the flavours of ice-cream and the possible toppings.

Ice-cream flavour	Topping
vanilla	coconut
chocolate	nuts
mint	sprinkles

How many choices of ice-cream and topping are available? *Hint 4*

- A 3      B 6  
 C 9      D 18

- 11 6K conducted a survey of birds flying over the schoolyard. These are their results.

Bird	Number
Pigeon	11
Sparrow	13
Parrot	5
Seagull	9

A visitor to the school would most likely see a:

- A pigeon      B sparrow  
 C parrot      D seagull

*Hint 1: There are 3 odd numbers out of 6 on a die.*

*Hint 2: Find the total number of blocks.*

*Hint 3: Use the total number of marbles.*

*Hint 4: There are 3 toppings per ice-cream.*