

Calculate the probability of a single event

A fair six-sided dice is rolled. What are the probabilities of the events?



- a) rolling the number 5
- d) rolling a number less than 5

- **b)** rolling the number 6
- e) rolling the number 7



- c) rolling an odd number
- f) rolling a square number



Amir spins the spinner.

Each section is equally likely to be landed upon. Find the probabilities.



- a) landing on red
- b) landing on green
- c) landing on red or yellow
- d) landing on blue

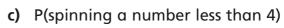


- Here is a numbered spinner. Work out the probabilities.
 - a) P(spinning a 1)

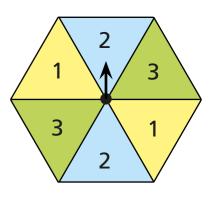




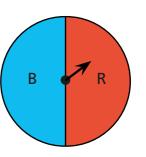
- **b)** P(spinning an odd number)

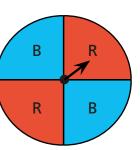






a) Here are two spinners.





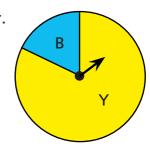
The probability of spinning blue on each of these spinners is equal.

Is the statement true or false?

Explain your reasons.

is equal to

b) Here is another spinner.



The probability of the spinner landing on yellow is 50%.

Is the statement true or false? __false_

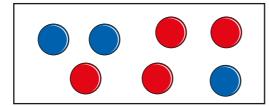
Explain your reasons.

Over hale a the sourcer



4 counters are red and 3 are blue.





Work out the probability that the counter is red.



A box of chocolates contains 4 mint, 3 strawberry and 2 toffee chocolates.

Annie selects a chocolate from the box at random.

Find the probability that the chocolate selected is:

a) mint

- 49
- **b)** mint or strawberry
- 7+19
- c) not strawberry
- 2/3



7 A cupboard contains a box of whiteboard pens.

4 of the pens are black, 3 are green, 2 are yellow and 1 is red.

A pen is selected at random.

Find the probability that the pen is:

a) red

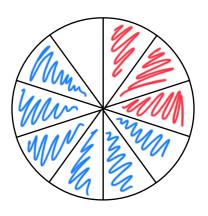
- 0 1
- **b)** green or yellow
- 12
- c) not green



8 A spinner has ten sections.

Colour the spinner so that:

- the probability of spinning red is $\frac{3}{10}$
- the probability of spinning blue is 60%.



The table shows the number of students in each year group at a school.

Year group	Year 7	Year 8	Year 9	Year 10	Year 11
Probability	120	150	175	165	120

A student is selected at random.

Find the probability that the student will be:

a) from Year 7

120
730

c) not from Year 8

580
730

b) from Year 10 or Year 11

10 A charity is running a raffle.

The charity sells 250 red tickets numbered 1 to 250

• The charity sells 170 green tickets numbered 1 to 170

A ticket is chosen at random to win a holiday.

Find the probability that the ticket selected will be:

a) green



c) numbered 201



b) numbered 100



d) numbered 263



