



- 1) Jordan designs a game for a school fair.  
He has two 8-sided spinners.  
The spinners are equally likely to land on each of their sides.

One spinner has 3 blue sides, 2 yellow sides and 3 white sides.  
The other spinner has 2 blue sides, 2 green sides and 4 white sides.

Calculate the probability that the two spinners will land on the same colour.



- 2) The probability that it will snow in Paris on Christmas day is 0.06.
- a) Work out the probability that it will snow in Paris on **both** Christmas day 2015 **and** Christmas day 2016.
- b) Work out the probability that it will snow in Paris on **either** Christmas Day 2015 **or** Christmas Day 2016, but **not** on both.



- 3) A bag contains 2 black beads, 5 yellow beads and 3 red beads.  
Natalie takes a bead at random from the bag, records its colour and replaces it.  
She does this two more times.

Work out the probability that, of the three beads Natalie takes, exactly two are the same colour.