

Probability Year 7

Key vocabulary

Outcome - The result of an experiment or situation

Certain - An outcome that definitely happens

Impossible - An outcome will definitely not happen

Even Chance - There is the same likelihood of something happening or not happening $\frac{1}{2}$

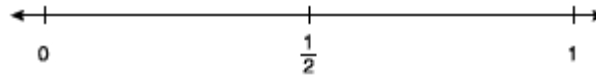
Mutually Exclusive - Two or more events that cannot happen at the same time e.g. getting a head and a tail from one toss of a coin

Independent Events - Events that can take place at the same time e.g. a multiple of 4 and an even number

Sample Space Diagram - A diagram that identifies all possible outcomes of two events

The Probability Scale

Impossible **Even Chance** **Certain**



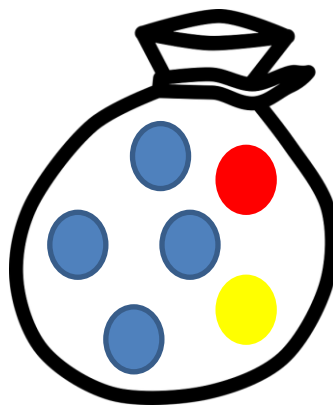
Unlikely

Likely

Writing Probabilities

Probabilities are written as fractions, decimals or percentages **Not** as a ratio

e.g. the probability of picking a red or blue



$$P(\text{r or b}) = \frac{5}{6}$$

6 is the total number of counters,

$$\text{Probability of Not Picking a red or blue} = \frac{1}{6}$$

Sample Space Diagram

The probability of throwing a coin and a dice and getting a 3 and a Head.

		Dice					
		1	2	3	4	5	6
Coin	H	H,1	H,2	H,3	H,4	H,5	H,6
	T	T,1	T,2	T,3	T,4	T,5	T,6

So the probability is $\frac{1}{12}$ as there are 12 outcomes altogether.