

1.1- Research what the definition of probability is.

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1.2- Explain how is probability measured?

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Which of the following is NOT a probability?

- A. A 20% chance there will be rain tomorrow.
- B. A one in five chance that Jason will win the marathon.
- C. A prediction that Spain will win the World Cup
- D. The fact the getting head when you toss a coin is equally as likely as getting tails

1.3- A box contains 3 salt and vinegar, 4 cheese and onion, and 2 ready salted packets of crisps. How would you work out what the probability of getting a packet of salt and vinegar crisps was, if you were choosing at random?

- A. Number of different flavours divided by the number of salt and vinegar crisps.
- B. Number of crisp packets divided by the number of different flavours.
- C. Number of salt and vinegar crisps divided by the number of all the packets of crisps in the box.
- D. Number of salt and vinegar crisps divided by the number of other flavours.

1.4- Could you identify the likelihood of the following events happening, by writing next to them either Impossible, Unlikely, Likely or Certain.

- a) The probability of a lottery ticket winning is:
- b) A day in February is chosen at random. What is the probability that this date is 35th February?
- c) A single die, with numbers 1 to 6, is thrown. What is the probability a 1 is thrown?

## Probability Experiment

- 1) Flip a coin 10 times.
- 2) Record the result as a tally mark whether the coin landed on 'heads' or 'tails'
- 3) Repeat until you have ten results.

	Tally	Total
Heads		
Tails		

According to your results, what is the probability of getting a heads? \_\_\_\_\_

Repeat again for 20 coin flips

	Tally	Total
Heads		
Tails		

According to your results, what is the probability of getting a heads? \_\_\_\_\_

Repeat again for 30 coin flips

	Tally	Total
Heads		
Tails		

According to your results, what is the probability of getting a heads? \_\_\_\_\_

Repeat again for 40 coin flips

	Tally	Total
Heads		
Tails		

According to your results, what is the probability of getting a heads? \_\_\_\_\_

Record your results in a graph below

