

Putting a number to chance

How do we put numbers to the following chances?

Sort the statements below under the headings - examples are given for each heading:

A. by working out all the possible outcomes, for example the chance of tossing a coin and getting heads. There are two things that can happen (head or tail) and they each have the same chance.

B. by using statistics, for example the chance of not being burgled - this would be worked out using crime statistics held by the police.

C. by an estimate or guess, for example the chance that a particular building will be hit by lightning. This happens rarely which means it is difficult to give an estimate of the chance.

The chance that a particular person will win the main prize in the National Lottery

The chance that a cure for the common cold will be found.

The chance that a person will recover from pneumonia.

The chance that all cars will be banned from city centres.

The chance that a driver will have a car accident.

The chance that a person will throw a six with an ordinary dice.

The chance that the earth has been visited by intelligent alien life.

The chance that all hospitals will be privatised.

The chance that the UK police will be armed on a daily basis.

The chance that house prices will fall in the next year.