

Mutually Exclusive Events

- 1) If the probability of passing a driving test is 0.54, what is the probability of failing it?

- 2) The probability that a football team will win their next game is $\frac{2}{11}$. The probability they will lose is $\frac{3}{11}$. What is the probability the game will be a draw?



- 3) On the school dinner menu there is only ever one of four options. Some of the options are more likely to be on the menu than others. The table shows the options available on any day, together with three of the probabilities.

Food	Curry	Sausages	Fish	Casserole
Probability	0.36	0.41		0.09

- a) Work out the probability of the dinner option being Fish.
- b) Which option is most likely?
- c) Work out the probability that it is a Curry or Sausages on any particular day.
- d) Work out the probability that it is **not** Casserole.



- 4) Julie buys a book every week. Her favourite types are Novel, Drama, Biography and Romance. The table shows the probability that Julie chooses a particular type of book.

Type of book	Novel	Drama	Biography	Romance
Probability	0.24	0.16	x	x

- a) Work out the probability that she will choose a Novel or a Drama.
- b) Work out the probability that she will choose a Biography or a Romance.

The probability that she will choose a Biography is the same as the probability she will choose a Romance.

- c) Work out the probability that she will choose a Biography.