

1. There are only green pens, blue pens and black pens in a box.

The table shows the probability that a pen take at random from the box will be blue or black.

Colour	green	blue	black
Probability		0.4	0.55

Isabelle takes at random a pen from the box.

Work out the probability that the pen will be green.

1. ....

2. Each customer who buys a meal deal can choose a free drink.

The table shows the probability that a customer chosen at random chose a coffee or a juice or a tea or a water.

Free drink	coffee	juice	tea	water	no drink
Probability	0.3	0.18	0.4	0.09	

A customer is chosen at random.

Work out the probability that the customer chose no free drink.

2. ....

3. The sides of a 5-sided spinner are labelled 1, 2, 3, 4 and 5.

The spinner is biased.

The probability that the spinner will land on each of the numbers 1, 2, 3 or 4 is given in the table.

Number	1	2	3	4	5
Probability	0.05	0.25	0.15	0.4	

Work out the probability that the spinner will land on the number 5.

3. ....

Answers

Q1: 0.05 or 5%,

$$\mathbf{FYI: } 1 - (0.4 + 0.55) \rightarrow M1$$

Q2: 0.03 or 3%,

$$\mathbf{FYI: } 1 - (0.3 + 0.18 + 0.4 + 0.09) \rightarrow M1$$

Q3: 0.15 or 15%,

$$\mathbf{FYI: } 1 - (0.05 + 0.25 + 0.15 + 0.4) \rightarrow M1$$