

1. In a school's meal deal a drink is included.

This table gives some information about which drink 120 people chose.

	Fizzy	Juice	Water
Girls	18	39	11
Boys	22	7	4
Teachers	3	5	11

One of the people is chosen at random.

Write down the probability that the person was a boy who chose juice.

2. This table gives some information about 50 tickets sold at the cinema.

	Comedy	Action	Horror
Under 18	8	15	11
Adult	4	3	1
Concession	3	5	0

One of the tickets is chosen at random.

Write down the probability that the ticket was for a comedy film.

3. Each customer who signs up on-line for a spa day can choose a free treatment.

The table shows the probability that a customer chosen at random chose a facial or a head massage or a pedicure.

Free treatment	facial	head massage	pedicure	reflexology
Probability	0.43	0.18	0.3	

A customer is chosen at random.

Work out the probability that the customer chose a free reflexology treatment.

4. (a) The sides of a dice are labelled 1, 2, 3, 4, 5 and 6.

The dice is biased.

The probability that the dice will land on each of the numbers 1, 2, 3, 4, 5 or 6 is given in the table.

Number	1	2	3	4	5	6
Probability	0.1	0.15	0.15	0.15	0.15	0.3

Don is going to spin the spinner 400 times.

Work out an estimate for the number of times the spinner will land on a number **more** than 4.

- (b) There are some counters in a bag.

The counters are yellow or blue or red or green or white.

The table shows the probability that a counter take at random from the bag will be yellow, blue, red, green or white.

Colour	yellow	blue	red	green	white
Probability	0.24	0.31	0.2	0.1	0.15

There are 1200 counters in the bag.

Work out the number of red counters in the bag.

5. (a) 240 students are asked about their language options and their holidays last year.

9 students study French but did **not** holiday in France.

202 of the students do **not** study French.

46 of the students holiday in France.

Use this information to complete the table below.

	holiday in France	not in France	Total
study French			
do not study French			
Total			240

(b) A school gives all year 8 some extra lessons.

Here is some information about the extra lessons in this two-way table.

	Extra english	Extra maths	Extra language	Total
Girls	16	21		
Boys			47	
Total	48		96	180

(i) Complete the two-way table.

(ii) Write down the probability that he takes extra maths as his extra lesson.