

b) A student is selected at random.

Fill in the missing information.

P(dark hair) =

P(light hair and name has five or more letters) =



c) Annie is going to the cinema with one of the students above.



What is the probability that the student has fewer than five letters in their name?



a) Complete the two-way table for these numbers.

2



	Factor of 30	Not a factor of 30	Total
Multiple of 3	3	3	6
Not a multiple of 3	4	10	14
Total	7	13	20

- b) Discuss with a partner the strategies you used to complete the table.
- c) A card is selected at random.

Fill in the missing information.



P(multiple of 3 but not a factor of

d) Alex has selected a multiple of 3 What is the probability that it is also a factor of 30?





120 students were asked if they play sport and if they play an instrument.

a) Complete the missing values in the two-way table.

	Plays an instrument	Does not play an instrument	Total
Plays sport	47	25	72
Does not play sport	28	20	48
Total	75	45	120

47

20

25

20

28

120

A student is selected at random.

- **b)** Work out the probability that the student plays a sport and plays an instrument.
- c) What is the probability that the student plays sport and does not play an instrument?
- d) Work out P(plays an instrument but does not play sport).



e) Is Mo correct? <u>No</u>

Explain your answer.

47 120 2

This two-way table shows information about books in a library.

	Fiction	Non-fiction	Total
Hardback	50	150	200
Paperback	4 80	320	800
Total	530	470	1,000

a) Use the information below to complete the table.

If you select a paperback, there is a 60% chance it is fiction.

- b) A book is selected at random. Work out the probability that it is a fiction paperback. Give your answer in its simplest form.
- c) A non-fiction book is selected at random. Work out the probability that it is a hardback. Give your answer in its simplest form.











