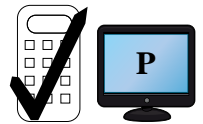


Two-Way Tables



- 1). Keith does a survey at his school.
All the pupils take part in the survey.
He draws this two-way table.

	Right handed	Left handed
Girls	188	32
Boys	203	37

- a). What two questions do you think he has asked?
- b). How many pupils are there in the school?
- c). How many pupils in the school are left handed?
- d). How many boys are in the school?
- e). What percentage of the school is right handed?
- f). What percentage of the girls is left handed?



- 2). A survey is conducted in a town centre.
The two-way table shows the results.

	Musical Preference	
	Pop	Classical
30 and over	64	48
Under 30	84	14

- a). What two questions do you think have been asked?
- b). How many people took part in the survey?
- c). How many people in the survey were 30 and over?
- d). How many people in the survey preferred classical music?
- e). What is the ratio of people who prefer pop to classical in
 - i). the 30 and over range,
 - ii). the under 30 range,
 - iii). in the survey?
- f). What percentage of the Under 30s surveyed prefers pop?

- 3). Pupils in a biology lesson classified the year group by hair colour and eye colour.
The results were put in the table shown.

	Blue eyes	Not blue eyes
Fair hair	32	3
Not fair hair	67	93

- a). How many people were classified in total?
- b). How many people have fair hair?
- c). If some one from the year group is chosen at random what is the probability they **do not** have fair hair?
- d). What percentage of the year group has
 - i). fair hair **and** blue eyes,
 - ii). Not fair hair and blue eyes?
- e). A person with fair hair is chosen at random.
What is the probability that they **do not** have blue eyes?
- f). What is the ratio of blue eyes to not blue eyes for the year group?

- 4). A shoe shop records sales for the week.
It divides the shoes into the 3 styles, fashion shoes, traditional shoes and trainers.

	Style		
	Fashion	Traditional	Trainers
Children's	61	14	86
Adult's	19	54	26

- a). How many sales were made in the week for the given table?
- b). How many fashion sales were made in the week?
- c). What fraction of total sales were
 - i). traditional shoes,
 - ii). trainers?
- d). What fraction of sales to children were traditional style shoes?
- e). What percentage of sales to adults were traditional style shoes?
- f). What is the ratio children to adults for sales of trainers?

