

Represent data in two-way tables



20 students were asked whether they had a pet.

The results are shown in the table.

Name	Year	Yes/No
Maria	Y7	Yes
Nancy	Y7	Yes
Amy	Y7	Yes
Aisha	Y8	No
Dominique	Y7	No
Lucy	Y8	Yes
Hannah	Y8	No
Zoe	Y7	Yes
Millie	Y8	No
Nima	Y8	No

Name	Year	Yes/No
Tim	Y7	Yes
Graeme	Y7	Yes
Jeff	Y8	No
Harry	Y7	No
Hassan	Y8	No
Marcus	Y7	No
Theo	Y7	No
William	Y7	Yes
Fred	Y7	No
Mika	Y8	Yes

a) Use tallies to complete the two-way table.

	Owns a pet	Does not own a pet	Total
Year 7			
Year 8			
Total			

b) Now complete the table of frequencies.

	Owns a pet	Does not own a pet	Total
Year 7			
Year 8			
Total			

2	The masses	of 25	melons	and	pumpkins	are sh	own.

Melons						
11.6 kg	8.8 kg	9.5 kg	10.5 kg	7.8 kg	9.2 kg	12.8 kg
7.2 kg	10.9 kg	11.0 kg	9.9 kg	10.2 kg	10.0 kg	6.8 kg
Pumpkins						
16.4 kg	18.2 kg	10.5 kg	9.5 kg	12.8 kg	14.2 kg	15.0 kg
17.2 kg	11.5 kg	11 kg	10.7 kg			

a) Complete the two-way table.

	10 kg or lighter than 10 kg	Heavier than 10 kg	Total
Melon			
Pumpkin			
Total			

b)	Write two things that you can see from the two-way table.
٠,١	Have any very tall from the table been according to see weight ad
C)	How can you tell from the table how many pumpkins were weighed
	in total?

3	The table shows information about 200 people who were in a gym a	it (
	particular time.	

	60 years old or younger	Over 60 years old	Total
Males	22	45	
Females	19		
Total			

	Total			
a) Complete the	table.		
b) How many mo	ıles over 60 years w	vere in the gym?	
c)	How many mo	ıles in total were in	the gym?	
ď) How many fer	nales were in the g	ym?	
e)) How many fer	nales over 60 years	were in the gym?	
f)	What time of twas collected?	the day do you thii	nk this data	
	Give reasons fo	or your answer.		

4	The two-way table shows the number of children in a school who have
	school lunch.

Complete the two-way table.

	Year 4	Year 5	Year 6	Total
School lunch	12			58
No school lunch		8		
Total	30	32		90

5	40 people ta	ke part in	a show

The show is made up of singers, dancers and actors.

Here is some information.

- There are 22 males in the show.
- 15 of the males are dancers.
- There are 8 female singers.
- Of the 7 actors, 2 are male.

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a)	Draw a	two-wau	table to	show this	information

b) How many dancers are in the show?

