



Objective: Two-way tables


Homework ST-7 – Worksheet ST-7

Do Now: Find the regression line for the data.

x (L ₁)	2	3	6	4.5	8	0
y (L ₂)	11	21	34	26	59	2

Exam Prep: A scatter plot has a line of best fit.

- A) always true B) sometimes true C) never true



Let's wrap-up statistics with some easy stuff... two-way tables are a gift. Read the information carefully and answer exactly what the questions ask. Double check your numbers.

Two-way tables contains two categories of data collected from the same source.

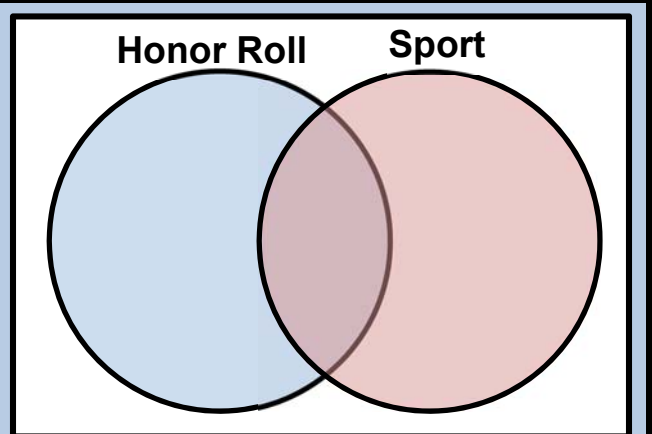
A survey says 250 people play a sport and are on honor roll. 115 people are only on honor roll and 45 only play a sport. In total, there are 75 people not on honor roll. Fill in the given info and complete the table.

	Play a Sport	Do Not Play a Sport	Total
On the Honor Roll			
Not on the Honor Roll			
Total			

Data can also be presented or show in a Venn diagram.

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Complete the Venn diagram and compare it to the two-way table.



Practice: Complete the Table

Bob surveyed students at his school. He found that 78 students own a cell phone and 57 of those students own an MP3 player. There are 13 students that do not own a cell phone, but own an MP3 player. Nine students do not own either device. Construct a two-way table summarizing the data.

	MP3 Player	No Mp3 Player	Total
Cell Phone	57		78
No Cell Phone	13	9	
Total			

Use percentages to draw conclusions about the data.

Divide the value of the cell by the row or column total.

%	MP3 Player	No Mp3 Player	Total
Cell Phone			
No Cell Phone			

Based on the data you can say most students carry a phone and MP3 player.

Practice: Complete the Table

There are 665 kids at The Doctor's DreamWalker Camp. 505 signed up for Evil Mirror Message writing. 571 signed up for Dark Math, 424 of them also signed up for Evil Mirror Message Writing. Summarize the data.



	Evil Mirror Message Writing	No Evil MMW	Total
Dark Math			
No Dark Math			
Total			

Complete the Frequency Table



%	Evil Mirror Message Writing	No Evil MMW	Total
Dark Math			
No Dark Math			

What conclusion can you draw from this data?

Practice: Complete the Table

Daily Messaging – 7th and 8th Grade Students

	Text Message	Picture Message	Total
7 th Grade	59		84
8 th Grade		41	105
Total			

Complete the Frequency Table

%	Text Message	Picture Message	Total
7 th Grade			
8 th Grade			

What conclusion can you draw from this data?

More Practice: Make a table from the data

Rides bus		Does not ride bus	
Age	Tally	Age	Tally
12-13		12-13	
14-15		14-15	
16-17		16-17	