Tables and Graphs of Data

Vocabulary

Table	A display of information in parallel rows or columns
Cell	The intersection of a row and column

Example:

This table shows data collected from students in Intermediate Algebra in the Fall of 2008 by this instructor. Students were asked to identify three items that personally helped them the most to learn the material in the course. The top three choices from each group are *highlighted*.

			Hard	Graded	Test	Online	Online					Other
	Class	Handouts	Сору	Daily	Review	Computer	Practice	Online	Му	Tutors in	Personal	students
	Lectures	in Class	Text	Homewk	Handout	Help	Test	Textbook	Instructor	Math Lab	Tutor	or adults
Freshmen Textbook Users	8	8	2	2	9				7	2	1	1
N=12	66.7%	66.7%	16.7%	16.7%	75.0%				58.3%	16.7%	8.3%	8.3%
Other Textbook Users	6	5	3	3	5				2	2	0	0
N=9	66.7%	55.6%	33.3%	33.3%	55.6%				22.2%	22.2%	0.0%	0.0%
Freshmen Computer Users	10	10	0	2	5	14	8	3	10	1	2	0
N=20	50.0%	50.0%	0.0%	10.0%	25.0%	70.0%	40.0%	15.0%	50.0%	5.0%	10.0%	0.0%
Other Computer Users	6	8	1	0	4	9	1	0	7	5	2	1
N=13	42.9%	61.5%	7.7%	0.0%	30.8%	69.2%	7.7%	0.0%	53.8%	38.5%	15.4%	7.7%
All Textbook Users	14	12	5	5	13				8	4	0	1
N=21	66.7%	57.1%	23.8%	23.8%	61.9%				38.1%	19.0%	0.0%	4.8%
All Computer Users	14	17	1	1	8	21	8	3	15	6	4	1
N=33	42.4%	51.5%	3.0%	3.0%	24.2%	63.6%	24.2%	9.1%	45.5%	18.2%	12.1%	3.0%

TRY: Which one item was marked as a "top three" by every group?

[This data helped your instructor decide to create the workbook you are currently using.]

Of all the students who used the textbook only to complete all homework assignments (textbook users), how many indicated the hard copy text was one of the top three sources to help them learn the material?

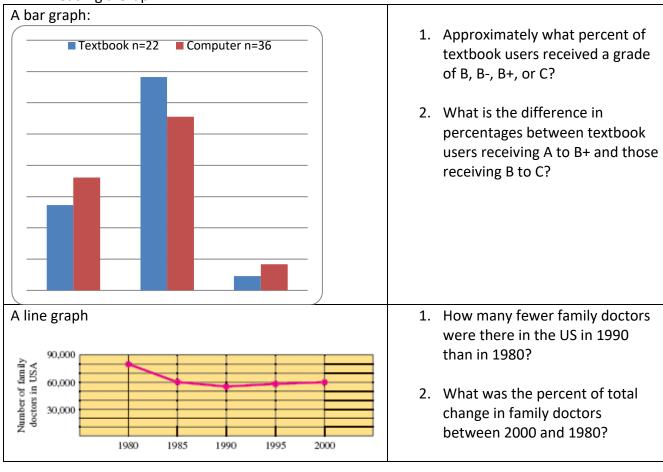
Of all the students who used the computer only to complete all homework assignments (computer users), what percent of all computer users indicated the hard copy text was one of the top three sources to help them learn the material?

Of Freshmen computer users, what item was selected by the highest percentage?

How many selected it?

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TRY: Reading a Graph

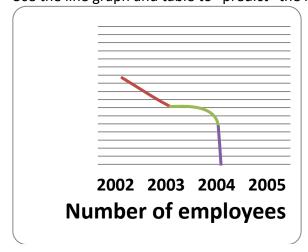


Making a prediction using a line graph:

One should be cautious about using **extrapolation** – using an earlier trend to predict a future value.

TRY:

Use the line graph and table to "predict" the number of employees in the year 2005.



	Number of
<u>Year</u>	employees
2002	1,506,781
2003	1,471,449
2004	1,446,766
2005	

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