

Chapter 1 Learning Plan**Checklist of Skills & Understanding:**

On pages 75 & 76 there is a table of example problems and review exercises to help you gauge your understanding.

Got it!	Almost There.	Needs some work.	
			I can identify <u>individuals</u> and <u>variables</u> in a set of data. (intro)
			I can classify variables as <u>categorical</u> or <u>quantitative</u> . (intro)
			I can display data with a <u>bar graph</u> or <u>pie chart</u> and I know when it is appropriate to use a pie chart. (1.1)
			I can use a two-way table to calculate and display a <u>marginal distribution</u> . (1.1)
			I can use a two-way table to calculate and display a <u>conditional distribution</u> (for a value of the <i>other</i> categorical variable in a two-way table.) (1.1)
			I can <u>compare</u> two conditional distributions and describe the <u>association between categorical variables</u> . (1.1)
			I can make an interpret <u>dotplots</u> and <u>stemplots</u> of quantitative data. (1.2)
			I can describe the <u>shape</u> , <u>center</u> , and <u>spread</u> of a distribution and identify any <u>apparent outliers</u> . (1.2)
			I can identify the shape of a distribution from a graph as <u>roughly symmetric</u> , <u>skewed right</u> , or <u>skewed left</u> . (1.2)
			I can make and interpret <u>histograms</u> of quantitative data. (1.2)
			I can <u>compare distributions</u> of quantitative data using dotplots, stemplots, or histograms. (1.2)
			I can calculate measures of center by hand and w/ a calculator: <u>mean</u> and <u>median</u> . (1.3)
			I can calculate and interpret measures of spread by hand and w/ a calculator: <u>IQR</u> , <u>range</u> , and <u>standard deviation</u> . (1.3)
			I can <u>choose the most appropriate measure</u> of center and spread in a given situation. (1.3)
			I can identify <u>outliers</u> using the 1.5 x IQR rule. (1.3)
			I can make and interpret <u>boxplots</u> of quantitative data. (1.3)
			I can use appropriate graphs and numerical summaries to <u>compare distributions of quantitative variables</u> . (1.3)
			I can organize a statistics problem using the <u>four-step process</u> : State, Plan, Do, Conclude. (1.3)

Key Vocabulary:

You should be able to understand and be able to use these terms in context.

Individuals	Segmented Bar Graph	Multimodal
Variables	Pie Chart	Bimodal
Population	Two-way Table	Unimodal
Sample	Dotplot	Minimum
Census	Stemplot	Maximum
Categorical (variable or data)	Overall Pattern	1st Quartile
Quantitative (variable or data)	Shape	3rd Quartile
Distribution	Center	Interquartile Range
Marginal Distribution	Spread	Sample Standard Deviation
Conditional Distribution	Outlier	Variance
Association	Mean	Histogram
Frequency	Median	5-Number Summary
Relative Frequency	Mode	
Bar Graph	Range	
Side-by-Side Bar Graph	Symmetric	
	Skewed Right	
	Skewed Left	

Suggestions for studying:

- Do all assigned homework. Check solutions. Ask for help when you don't understand something.
- Do all assigned reading. Don't skip definitions or example problems. Take notes in a way that works for you.
- Review your classwork. Pay special attention to what you wrote in red pen and the "important ideas" section.
- Review notes or review assignments we did in class. Check the class website to make sure you didn't miss anything.
- Make flashcards for definitions and formulas (Remember: you don't have to memorize all the formulas, but you must know when to use them.)
- Use MyAP to find more practice problems. Do the review activities assigned in class and review the ones you got wrong.