

Section 1: From assigned reading

What is the Distribution of a sample ?	
What is a dotplot ?	
What is a histogram ?	
What is the difference between a histogram and a bar chart?	
What is a stemplot? Define stem and leaf .	
What is the difference between frequency and relative frequency?	
What are the advantages and disadvantages to each type of graphical representation of data explained in this section?	Dotplot (pros)
	Dotplot (cons)
	Histogram (pros)
	Histogram (con)
	Stemplot (pro)
	Stemplot (con)

Section 2: From assigned reading

<p>What is a typical value (center)?</p>	
<p>What are the measures of central tendency? (mmmm)</p>	
<p>How is each measure of central tendency calculated?</p>	
<p>What are the advantages and disadvantages to each calculation?</p>	
<p>What are the measures of variability (spread)</p>	

Section 2: From assigned reading (continued)

Why do statisticians prefer standard deviation over variance?	
What is the round off rule for reporting statistics or parameters?	
What is the range rule of thumb ?	
What is a uniform distribution ?	
What are the characteristics of a bell shaped curve ?	
Are bell shaped curves the only symmetric curves?	
Describe a unimodal distribution.	
Describe a bimodal distribution.	
Describe a multimodal distribution.	
What might cause a distribution to have more than one mound?	
What is a statistical outlier ?	
What is the process (calculation) for determining if a data value is a mild outlier?	
What does it mean to be right skewed (positively skewed)?	
What does it mean to be left skewed (negatively skewed)?	

Section 2: From assigned reading (continued)

What is the formula and interpretation of Karl Pearson's Coefficient of Skewness ?	
What does Pearson's Coefficient reveal about a data set?	
Other types of distributions.	U-shaped:
	J-Shaped:
	Reverse J-Shaped:
What is the difference between a J-shaped and a negatively skewed distribution?	

Section 3 From assigned reading

Define bar chart .	
Define Pareto chart .	
Define pie chart .	
What type of data uses the charts described above?	
What are the advantages and disadvantages of using a bar chart vs a pie chart?	bar chart:
	pie chart:

Section 4 From assigned reading

Describe the application for the measure of center called mode ?	
How does one compare variability of two distributions?	
What is a coefficient of variation and how is it used?	

Section 5 From assigned reading

What are some ways that statistical graphs can be inappropriately used to mislead or manipulate characteristics of data?	
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Remember that not everything will be found in the book. Use the resources available to understand the vocabulary and concepts outlined in this document.