

EQ:

How are statistics used in business?

Profession/Occupation	Purpose
_____	_____
_____	_____
_____	_____

- Statistics - science of conducting _____ to _____, _____, _____, and draw conclusions from data

❖ Branches of Statistics:

1. Descriptive - consists of the _____, _____, _____, and _____ of data
2. Inferential - consists of generalizations from _____ to _____; perform _____ and _____; determine _____ among _____; make _____

➤ In class: See Example Handout Problem #1 a, b, c

❖ What is _____?

Variables - _____ or _____ that can assume _____

Data - values that _____ can assume

Data Sets - collection of _____

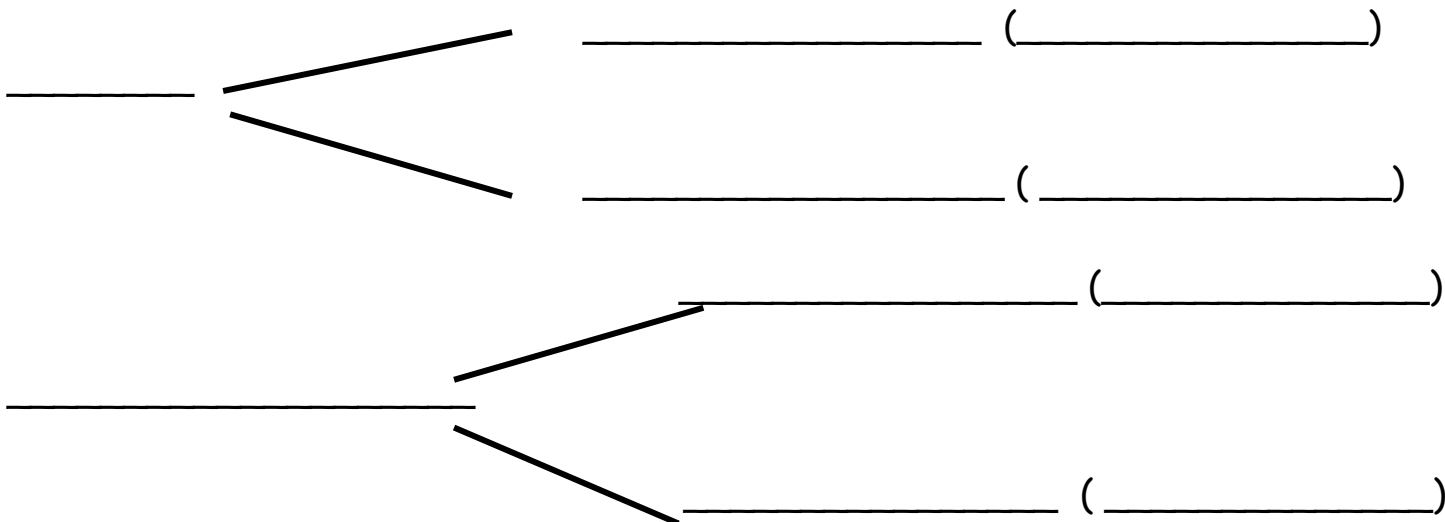
Random Variables - variables whose _____ are _____

Populations - all _____ being studied

Samples - group of _____ selected from _____

Hypothesis Tests - decision making process for evaluating _____ about a
_____ ; based on _____ from _____

Two Types of Data:



➤ In Class See Example Handout #3 a, b, c & 4 a, b, c

❖ Types of Sampling Methods:

1. Simple Random Sample - chosen in such a way that every sample of size _____ has an equal _____ to be selected
2. Random Samples - selected by using _____ methods of _____ numbers

➤ In Class See Example Handout #7

3. Systematic Sampling - _____ subjects in population; select every _____ subject

4. Stratified Sampling - _____ population into _____ according to a _____ to the study; take a _____ from each _____

5. Cluster Sampling - population divided into _____ (_____); randomly select an _____

***Common grouping method for both _____ and _____ is _____.

6. Convenience Sampling - subjects selected in a _____ manner (mall attendees, first to arrive)

➤ In Class See Example Handout #5a, b

❖ Type of Statistical Studies:

1. Observational Study - researchers _____ subjects to draw conclusions

2. Experimental Study - some _____ is _____ on the _____ by the _____

➤ In Class See Example Handout #6a

❖ Assignment: Finish Example Handout #1 - 8