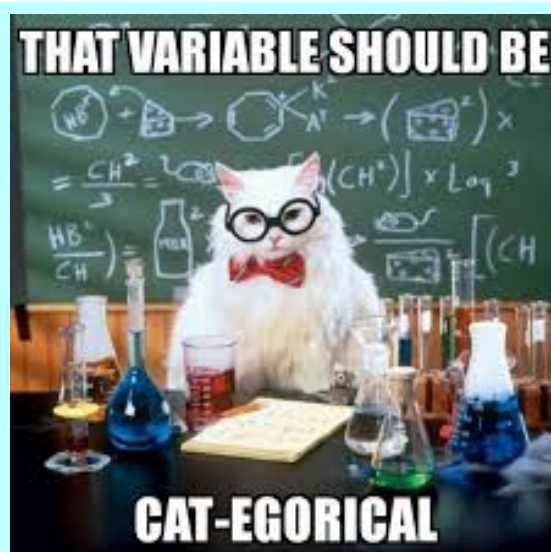
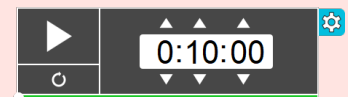


August 2, 2019

1. Signed syllabus
2. Paper and ~~Book~~
3. Complete summary on yesterday's notes



Practice Questions - Warm Up



PG 5 #1.1-1.2



Topic: Observational Studies

Name: _____

What am I learning today?

Date: _____

**Main Ideas/
Questions**

Calculating
Percent of a Total

$$\frac{20}{100}$$

$$12 \times \frac{17'}{204\text{ft}^2}$$

Notes

Example 1:

A study done at Wheeler High School with 50 students being surveyed about their favorite fast food found out that 20% liked Wendy's, 30% liked Chick-fil-A, and 50% liked Zaxby's.

How many students liked Wendy's?

$$.20(50) = 10 \text{ stud.}$$

$\% \times \text{total}$
(dec)

How many students liked Zaxby's?

$$.5(50) = 25 \text{ stud.}$$

Was this sample a good representation of the population? Why or why not?

No, sample size not large enough.

Example 2:

A house has a total of 1527 square feet. The largest bedroom in the house is 12' x 17'. What percent of the house is this bedroom?

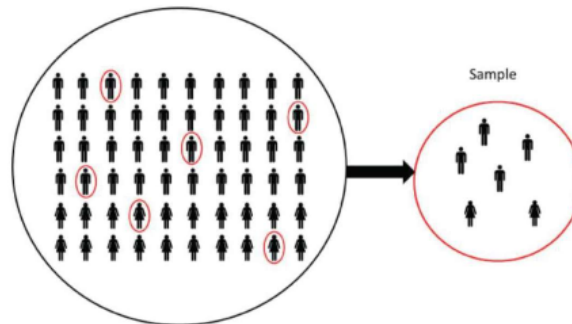
$$\frac{204}{1527} = .1336 = 13.36\%$$

Vocabulary

Description	
Observational Study	A study that does not attempt to influence the results.
Population	Entire group of individuals that we want to study ***Can be a very LARGE group or a small group
Sample	A piece of the population. This is used to draw conclusions about the population.
Census	A survey that attempts to include the entire population

Topic: Observational Studies**Date:** _____**Main Ideas/
Questions**

Examples

Notes**(From the textbook) Example 1.4 - Public Opinion Polls**

A website surveyed U.S. citizens in 2016 to see which candidate they were voting for in the election. They were able to interview 1270 people by phone.

What is the population and the sample?

U.S. Citizens 1270 people

Sample.

Example:

Given the population, determine an appropriate sample.

A. Mr. Gillihan wants to know the average test grade for Unit 1 in the Statistical Reasoning classes.

Population: All students in Stat. Reas.

Sample(s): Thomson 2nd Block

- All boys
- All girls.

B. A safety inspector conducts air quality tests in the hallways of Wheeler High School.

Population: All hallways in WHS.

Sample(s): • Freshmen
• PAC
• Magnet, upstairs

Summary

Summarize the lesson in your own words (this is to help you review later)

Practice - WARM UP MONDAY

Starts on PG. 9

Problems #1.7-1.9

Keep in notebook