

You need out your Agenda & warm Up

Homework: Biased/Unbiased

Warm Up:

1. We want to do a survey on Cobb Counties Families to see who has a pet at home. We decide to ask 20 families from each Middle School.

Pop: **biggest**
Cobb Cty fam.

Sample: **Smallest**

2. You want to know what shoppers favorite store is at the mall so you interview 20 people walking out of American Eagle.

Pop: **Shoppers at the mall**

Sample: **Smallest**
20 people, "
$$\begin{array}{r} + \quad | \quad - \quad 21 \\ \hline 12 \quad | \quad 21 \\ \hline 9 \end{array}$$

3. $-9x - 12 = -21$

$$\begin{array}{r} +12 \quad | \quad 12 \\ \hline +9x \quad | \quad -9 \\ \hline +9 \quad | \quad -9 \\ \hline x \quad | \quad 1 \end{array}$$

Simple Random 😊

-everyone in the population has a fair chance.

-EX: randomly selecting names from a list or hat
(like the sticks in class)

Systematic 😊

-People are selected according to a specific time interval.

EX: every 10th person to enter the cafeteria

Convenience ☹️

- "Lazy method"

- Members of a population are easily selected. (Something convenient)

EX: Mrs. Sangster only asking her homeroom a question.

Voluntary Response ☹️

- People volunteer to respond to a survey.

- Only people who want to participate complete it.

EX: a survey on Mrs. Sangster's blog for students to answer if they choose.

4 Corners

Taylor Swift wants to know how many of her fans like her new CD. She puts a survey with her CD and calculates results from people who mail it back.

We want to know how many teachers at McCleskey have a dog. We put their name in a hat and draw 8 names.

You want to know students at McCleskeys favorite basketball team. You ask your 1st period math class.

You want to know every one at MMS favorite social media. You put a survey in the cafeteria & let students fill it out if they want.


Unbiased & Biased Samples & Sample Types


Unbiased Sample:

select people to represent an entire population

Biased Sample:

one or more groups in the population are being favored.

 To get valid results, you must choose the survey method carefully. An unbiased survey is selected so it accurately represents the entire population.

 In a biased survey one or more parts of the population are favored over others.

There are 3 key things to look for when determining if a survey is biased:

* 1. did everyone in the population have a fair chance to share their opinion? *

2. it cannot be voluntary

3. was the ~~sample size~~ big enough?

number of people surveyed

- Simple
- Random
- Systematic

⚡ Ask yourself, does everyone in the entire population have an equal chance of sharing their opinion.

Every tenth student who walked into the cafeteria was surveyed to determine his or her favorite lunch. Out of 40 students, 19 students stated that they liked the burgers best. The staff concluded that about 50% of the students like burgers best. Is the sample

To award prizes at a sold-out hockey game, four seat numbers are picked from a barrel containing individual papers representing each seat number. Tyler concludes that he has as good a chance as everyone else to win a prize.

You want to know Cobb County students favorite sport to watch. You decided to interview 5 people in the stands of a lacrosse game.

To determine what people like to do in their leisure time, the customers of a music store are surveyed. Of these, 85% said that they like to listen to music, so the store manager concludes that most people like to listen to music in their leisure time.

Sit silently for the news

1) Colonialism in Africa reading & questions

2) Color/label map based on which European countries colonized African countries

