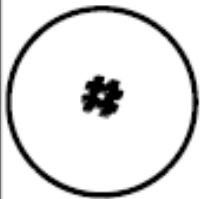


Tuesday, April 26th



Essential Question
How can we ask good questions to collect information?

STATISTICAL QUESTIONS



NUMERICAL
Data

DATA

a collection of information.

CATEGORICAL
Data



What day of the month were students in the class born on?
2nd or 7th or 25th etc

Multiple possible answers

STATISTICAL QUESTIONS

What are the favorite colors of students in this class?
Blue etc Red

What day of the month is Halloween on? 31st

only one answer

NOT STATISTICAL QUESTIONS

What color is grass? green

How tall are 6th graders?
4'5" or 5'1" or 3'11"

What do you notice?
Statistical Questions have several possible answers.

What do you wonder?
Non-statistical Questions have only one answer.

How many inches are in a foot? 12"

You Define It: What is a statistical question?

Fold Here

A **STATISTICAL QUESTION** is a question that can be answered by collecting **DATA** and where there will be **VARIABILITY** in the data.
(different possible answers)

Statistical or Not Statistical

that is the question.

For questions A-L, decide if each question is a statistical question or not.

- If it is **statistical**, write 3 possible answers to show the question has variability.
- If it is **not statistical**, ~~rewrite the question into a statistical question.~~

A How long do most 6th graders spend on homework each night?
 2 hours, 3 hours, or 1/2 hour, etc

B How old is our current president?
 79 yrs

C What age are the teachers at this school?
 23, 54, 47...

D How many apps do your classmates have on their phones?
 3, 7, 200

E How many siblings does Taylor Swift have?
 1 siblings
 one brother

F What are 6th graders favorites hobbies?
 gaming
 writing
 drawing

G What was the highest grossing movie in 2017?
 There can be only one

H How many snow days have we have this school year?
 zero days

I How many digits of pi can each student in this class remember?
 ___ digits

J Who received the highest score in this class on the last math quiz?
 only one "highest" score

K What time did your friends wake up this morning for school?
 ___ o'clock

L How far away from school do students live?
 ___ miles

M Write a **statistical** question about video games.
 How many xbox games do your friends own?

N Write a **statistical** question about music.
 How many music apps do you use?