Unit: Data and Statistics Student Handout 1

Name .		
Date	Pd	

## INTRO TO STATISTICAL QUESTIONS AND DATA

	<ul> <li>Data can be described as a collection of</li> <li>For example: numbers, measurements, observations, and descriptions</li> </ul>
DATA	<ul> <li>Categorical data: this data represents and is often sorted into groups</li> <li>Numerical data: this data represents values that can be</li> </ul>
TASK 1 Read e	ach statement to determine if it is referring to categorical or numerical data.
determine e favorite gen	pering data to cach student's are of book to ad."  LUKE  DEMARCUS  "I am collecting data to determine how many hours of sleep each student in our class gets."
much mo	"I am collecting data on the color of cars that run the stoplight in front of our school."  HEATHER
	IS THE DATA CATEGORICAL OR NUMERICAL? WHY?
[NKE	
DEMARCUS	
JOSIE	
HEATHER	
Identify two nume deck of playing co	erical and two categorical data sets that could be observed about a standard ards.
CATEGORICAL DA	ATA:
NUMERICAL DATA	.:

## STATISTICAL QUESTIONS

- For a question to be considered statistical, it must meet two criteria:
  - the question must be able to be answered by \_\_\_\_\_
  - the data must \_\_\_\_\_
- Ex: \_\_\_\_\_

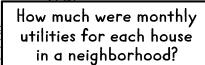
**TASK 2** Determine if each of the questions below are statistical or not. Rewrite any non-statistical questions to be statistical.

- 1. How many times a week do you go to football practice?
- 2. On average, how many hours of sleep do you get each night?
- 3. What is the maximum number of free throw shots students on the basketball team can make in a row?
- 4. Create both a statistical and non-statistical question of your own below.

STATISTICAL:

NON-STATISTICAL:

**TASK 3** Draw a line from each question to the best description of the question. Not all choices will be used.



How many siblings do you have?

What is each student's favorite restaurant in my class?

Categorical and statistical

Categorical and non-statistical

Numeric and statistical

Numeric and non-statistical

Numeric and statistical

Summarize today's lesson:

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## INTRO TO STATISTICAL QUESTIONS AND DATA

In 1-2, list whether the results of the survey would be categorical or numerical. Explain your reasoning.

SURVEY QUESTION	TYPE OF DATA AND EXPLANATION
1. How many pets do the students in my class have?	
What streaming service do the residents in my apartment complex subscribe to?	

The students in Mr. Kurtz's class are asked to create nine different survey questions. List the letter of each question that is statistical in the table below. If it is not a statistical question, rewrite it to be statistical.

How often do you play football?

P How many sit-ups can the students in PE class complete in 1 minute?

What are the heart rates of the students in the 6<sup>th</sup> grade class?

What are the types of sneakers students in our school wear?

How many students tried out for the volleyball team?

How many meters can the students on the swimming team swim?

What is the max number of minutes that students on the track team can run?

How many pairs of tennis shoes do the students in our school have?

How many students in the 6<sup>th</sup> grade can do the long jump?

STATISTICAL	NON-STATISTICAL & REWRITE