

Name \_\_\_\_\_

8A; Algebra 1

Date \_\_\_\_\_

Period \_\_\_\_\_

#103

Homework

1. Description of a mule, named Monty:

- 14.1 hands high
- 800 pounds
- 12 years old
- purchase cost: \$800
- maintenance cost: \$100 a month

How would you classify this data?

Choose:

A) quantitative data

B) qualitative data

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2. Description of a sports car:

- black
- convertible
- chrome accessories
- saddle brown interior
- two-seater

How would you classify this data?

Choose:

A) quantitative data

B) qualitative data

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3. Determine the average number of M&Ms in a mini canister.

How would you describe this data?

Choose:

A) univariate

B) bivariate

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4. Data is collected to determine if the number of a student's extra-curricular activities affects his/her math test scores.  
How would you describe this data?

Choose:

A) univariate

B) bivariate

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5. Lamar collects data to determine whether students think boys or girls are smarter. He surveys his all-male basketball team.  
How would you describe this data?

Choose:

A) unbiased

B) biased

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6. A study is conducted to determine the number of students in the freshman class who own a laptop computer. Fifty students chosen at random from the 112 students in the freshman class were surveyed.

How would you describe this data?

Choose:

A) unbiased

B) biased

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7. Which data table represents univariate data?

A)

Side Length of a Square	Area of Square
2	4
3	9
4	16
5	25

C)

Age Group	Frequency
20-29	9
30-39	7
40-49	10
50-59	4

B)

People	Number of Fingers
2	20
3	30
4	40
5	50

D)

Hours Worked	Pay
20	\$160
25	\$200
30	\$240
35	\$280

8. Which one of the following tables does *not* show bivariate data?

A) 

Gallons	Miles Driven
15	300
20	400
25	500

B) 

Speed (mph)	Distance (miles)
40	80
50	120
55	150

C) 

Quiz Average	Frequency
70	12
80	15
90	6

D) 

Height (inches)	Weight (pounds)
39	50
48	70
60	90

9. A school wants to add a co-ed soccer program. To determine student interest in the program, a survey will be taken. In order to get an unbiased sample, which group should the school survey?
- A) every third student entering the building
  - B) every student having a second-period French class
  - C) every member of the varsity football team
  - D) every member in Ms. Zimmer's drama classes

10. Which data set describes a situation that could be classified as qualitative?
- A) the heights of the players on the *East High School* basketball team
  - B) the favorite ice cream flavor of each of Mr. Hayden's students
  - C) the ages of the students in Ms. Marshall's Spanish class
  - D) the test scores of the students in Ms. Fitzgerald's class

11. Which situation should be analyzed using bivariate data?
- A) Mr. Benjamin tries to see if his students' shoe sizes are directly related to their heights.
  - B) Ms. Saleem keeps a list of the amount of time her daughter spends on her social studies homework.
  - C) Mr. DeStefan records his customers' best video game scores during the summer.
  - D) Mr. Chan keeps track of his daughter's algebra grades for the quarter.

12. A survey is being conducted to determine which types of television programs people watch. Which survey and location combination would likely contain the *most* bias?
- A) surveying the first 25 people who enter a grocery store
  - B) surveying 10 people who work in a sporting goods store
  - C) randomly surveying 75 people during the day in a clothing store
  - D) randomly surveying 50 people during the day in a mall