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Date: \_\_\_\_\_

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Course: Math2620 F - Fall 2018

Assignment: Chapter 1.1-Homework

1. Determine whether the underlined value is a parameter or a statistic.

A study of 6,076 adults in public rest rooms found that 23% did not wash their hands before exiting.

Is the value a parameter or a statistic?

- A. The value is a parameter because the 6,076 adults in public rest rooms are a sample.  
 B. The value is a statistic because the 6,076 adults in public rest rooms are a population.  
 C. The value is a statistic because the 6,076 adults in public rest rooms are a sample.  
 D. The value is a parameter because the 6,076 adults in public rest rooms are a population.

2. Determine whether the underlined numerical value is a parameter or a statistic. Explain your reasoning.

A poll of all 2000 students in a high school found that 94% of its students owned cell phones.

Choose the correct answer below.

- A. Statistic, because the data set of a sample of students is a population.  
 B. Parameter, because the data set of a sample of students is a sample.  
 C. Parameter, because the data set of all 2000 students in a high school is a sample.  
 D. Parameter, because the data set of a sample of students is a population.  
 E. Statistic, because the data set of a sample of students is a sample.  
 F. Statistic, because the data set of all 2000 students in a high school is a population.  
 G. Statistic, because the data set of all 2000 students in a high school is a sample.  
 H. Parameter, because the data set of all 2000 students in a high school is a population.

3. Determine whether the underlined value is a parameter or a statistic.

The average age of men who had walked on the moon was 39 years, 11 months, 15 days.

Is the value a parameter or a statistic?

- A. The value is a statistic because the men who had walked on the moon are a sample.  
 B. The value is a parameter because the men who had walked on the moon are a sample.  
 C. The value is a statistic because the men who had walked on the moon are a population.  
 D. The value is a parameter because the men who had walked on the moon are a population.

4. Determine whether the underlined value is a parameter or a statistic.

In a survey of 1,011 people age 50 or older, 73% agreed with the statement "I believe in life after death."

Is the value a parameter or a statistic?

- A. The value is a parameter because the 1,011 people age 50 or older are a sample.  
 B. The value is a statistic because the 1,011 people age 50 or older are a sample.  
 C. The value is a statistic because the 1,011 people age 50 or older are a population.  
 D. The value is a parameter because the 1,011 people age 50 or older are a population.

5. Determine whether the variable is qualitative or quantitative.

Favorite film

Is the variable qualitative or quantitative?

- A. The variable is quantitative because it is an attribute characteristic.
- B. The variable is quantitative because it is a numerical measure.
- C. The variable is qualitative because it is a numerical measure.
- D. The variable is qualitative because it is an attribute characteristic.

6. Determine whether the variable is qualitative or quantitative.

Favorite rock group

Is the variable qualitative or quantitative?

- A. The variable is qualitative because it is an attribute characteristic.
- B. The variable is quantitative because it is an attribute characteristic.
- C. The variable is quantitative because it is a numerical measure.
- D. The variable is qualitative because it is a numerical measure.

7. Determine whether the variable is qualitative or quantitative.

Breed of cat

Is the variable qualitative or quantitative?

- A. The variable is quantitative because it is an attribute characteristic.
- B. The variable is quantitative because it is a numerical measure.
- C. The variable is qualitative because it is an attribute characteristic.
- D. The variable is qualitative because it is a numerical measure.

8. Determine whether the variable is qualitative or quantitative.

Social Security number

Is the variable qualitative or quantitative?

- A. The variable is qualitative because it is a numerical measure.
- B. The variable is quantitative because it is an attribute characteristic.
- C. The variable is qualitative because it is an attribute characteristic.
- D. The variable is quantitative because it is a numerical measure.

9. Determine whether the quantitative variable is discrete or continuous.

Area of a park

Is the variable discrete or continuous?

- A. The variable is discrete because it is countable.
- B. The variable is continuous because it is not countable.
- C. The variable is continuous because it is countable.
- D. The variable is discrete because it is not countable.

10. Determine whether the quantitative variable is discrete or continuous.

Weight of gravel in a pile

Is the variable discrete or continuous?

- A. The variable is discrete because it is not countable.
- B. The variable is discrete because it is countable.
- C. The variable is continuous because it is not countable.
- D. The variable is continuous because it is countable.

11. Determine whether the quantitative variable is discrete or continuous.

Running time of a film

Is the variable discrete or continuous?

- A. The variable is continuous because it is countable.
- B. The variable is discrete because it is countable.
- C. The variable is discrete because it is not countable.
- D. The variable is continuous because it is not countable.

12. Determine whether the quantitative variable is discrete or continuous.

Number of batters hit by a ball in a baseball game

Is the variable discrete or continuous?

- A. The variable is continuous because it is countable.
- B. The variable is discrete because it is countable.
- C. The variable is discrete because it is not countable.
- D. The variable is continuous because it is not countable.

1. C. The value is a statistic because the 6,076 adults in public rest rooms are a sample.

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2. H. Parameter, because the data set of all 2000 students in a high school is a population.

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3. D. The value is a parameter because the men who had walked on the moon are a population.

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4. B. The value is a statistic because the 1,011 people age 50 or older are a sample.

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5. D. The variable is qualitative because it is an attribute characteristic.

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6. A. The variable is qualitative because it is an attribute characteristic.

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7. C. The variable is qualitative because it is an attribute characteristic.

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8. C. The variable is qualitative because it is an attribute characteristic.

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9. B. The variable is continuous because it is not countable.

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10. C. The variable is continuous because it is not countable.

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11. D. The variable is continuous because it is not countable.

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12. B. The variable is discrete because it is countable.

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