

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

## **Samples and Surveys** Assignment

**Tell whether the following data is a qualitative or quantitative data.**

- |               |                   |
|---------------|-------------------|
| 1. Weight     | 2. Age            |
| 3. Hair color | 4. IQ             |
| 5. Gender     | 6. Monthly Income |

**Select the appropriate method of research for the following data.  
(Observation, Direct, Indirect, Experimental, or Registration)**

- |  |   |
|--|---|
| 7. A newly discovered species of animal.       | 8. Nationwide Survey for presidential election.     |
| 9. Research for the history of a town.         | 10. Demographic of a town.                          |
| 11. To study an activity of a certain disease. | 12. Behavior of an animal in a certain environment. |

**Select the best method of collecting data for the following problem.  
(Cluster, Convenient, Purposive, Simple Random, Stratified, or Quota Sampling)**

- |  |  |
|--|--|
| 13. First 100 students passed the examination. | 14. Number of licensed teacher in Town A.          |
| 15. Number of person visited a store.          | 16. A nationwide survey for presidential election. |
| 17. Winner of a Car raffle.                    | 18. Male students of a certain city.               |

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## Samples and Surveys Assignment

**Calculate the sample size of the population below.**

19. How many samples are needed if the target population is 1,000,000,000 and a margin of error of 5% is allowed?

20. A researcher wants to know the study habits of a student of college of physical therapy in ABC University. Determine the size of the sample units from each level using a 4% margin of error.

Year Level	Population	Percentage	Sample Size
First Year	750		
Second Year	600		
Third Year	550		
Fourth Year	580		
Total	2530		

## Samples and Surveys Assignment

### Answer:

Tell whether the following data is a qualitative or quantitative data.

1. Weight

Quantitative

2. Age

Quantitative

3. Hair color

Qualitative

4. IQ

Quantitative

5. Gender

Qualitative

6. Monthly Income

Quantitative

Select the appropriate method of research for the following data.

7. A newly discovered species of animal.

Observation Method

8. Nationwide Survey for presidential election,

Indirect Interview

9. Research for the history of a town.

Direct Interview

10. Demographic of a town.

Registration Method

11. To study an activity of a certain disease.

Experimental Method

12. Behavior of an animal in a certain environment.

Observation Method

Select the best method of collecting data for the following problem.

13. First 100 students passed the examination.

Quota Sampling

14. Number of licensed teacher in Town A.

Purposive Sampling

15. Number of person visited a store.

Convenient Sampling

16. A nationwide survey for presidential election.

Cluster Sampling

17. Winner of a Car raffle.

Simple Random Sampling

18. Male students of a certain city.

Stratified Random Sampling

Calculate the sample size of the population below.

19. How many samples are needed if the target population is 1,000,000,000 and a margin of error of 5% is allowed?

Given:

$$N = 1,000,000,000$$

$$e = 0.05$$

Solution:

$$n = \frac{1000000000}{1 + 1000000000(0.05)^2} = 399.99 \text{ or } 400$$

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## Samples and Surveys Assignment

20. A researcher wants to know the study habits of a student of college of physical therapy in ABC University. Determine the size of the sample units from each level using a 4% margin of error.

Year Level	Population	Percentage	Sample Size
First Year	750	$750/2480 = 0.302$ or 30.2%	151
Second Year	600	$600/2480 = 0.242$ or 24.2%	120
Third Year	550	$550/2480 = 0.222$ or 22.2%	111
Fourth Year	580	$580/2480 = 0.234$ or 23.4%	117
Total	2480	100%	499

Solution:

$$n = \frac{2480}{1 + 2480(0.04)^2} = 499$$