

Descriptive Statistics Quiz

Total points 20/29 ?

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✓ 1. A researcher is curious about the IQ of students at the Utrecht University. The entire group of students is an example of a:

1/1

- ☐ Parameter
- ☐ Statistic
- ☒ Population
- ☐ Sample



✗ 2. How can you best describe descriptive stats ?

0/1

- ☐ Allow random assignment to experimental conditions
- ☐ Use data from a sample to answer questions about a population
- ☒ Summarize and describe data
- ☐ Allow you to generalize beyond the data at hand



Correct answer

- ☒ Summarize and describe data
- ☒ Allow you to generalize beyond the data at hand

✓ 3. Which of the following can be termed as Descriptive measure of data ? 1/1

- ☒ Mean age of people in Singapore
- ☒ The number of people who watched the superbowl in the year 2002
- ☐ Prediction of next month's unemployment rate
- ☒ Median price of new homes in New York
- ☒ Weight of heaviest man in the world



✓ 4. Which of the factor can influence mean of a data ?

1/1

- ☐ Order of data
- ☐ Individual Scores
- ☒ Outliers
- ☐ Standard Deviation



✗ 5. Which of the following is the least helpful in determining the diversity of data ? 0/1

- ☐ Standard Deviation
- ☐ Variance
- ☐ Mean
- ☒ Range

✗

Correct answer

- ☒ Mean

✓ 6. What is range of given data [7, 9,19, 22, 27,29,35] 1/1

- ☐ 23
- ☐ 25
- ☒ 28
- ☐ None

✓

✓ 7. If the mean of 30 observations is found to be 15. What is the sum of observations ? 1/1

- ☐ 15
- ☐ 45.0
- ☐ 200
- ☒ 450

✓



✗ 8. A numerical value used as a summary measure for a sample, such as sample mean, is known as a 0/1

- ☐ population parameter
- ☐ sample parameter
- ☐ sample statistic
- ☒ population mean
- ☐ None of the above answers are correct

✗

Correct answer

- ☒ sample statistic

✓ 9. The number of employees in Company A are 650 and average pay is \$2750 a month and the number of employees in company B is 700 and average monthly pay is \$2500 and what is average pay of merged company A and B assuming no employee is laid off and no hikes offered as a part of merger deal 1/1

- ☐ \$2520
- ☒ \$2620
- ☐ \$2320
- ☐ \$2420

✓



✓ 10. What does measure of variability indicates

1/1

- ☐ if the mean is greater than the mode
- ☒ how well the measure of central tendency represents the entire set of scores ✓
- ☐ if the high and low extremes scores cancel each other out
- ☐ whether or not to compute percentiles

✓ 11. What is the disadvantage of using the sum of squared deviations for measuring variability 1/1

- ☐ it uses the mean in its calculation
- ☐ it cannot be used in any other statistical analyses
- ☒ it does not take N into account ✓
- ☐ it can only be used with ratio data

✓ 12. What does not characterizes the mean

1/1

- ☐ The sum of the deviations about the mean is 0
- ☐ It is best used with ordinal data
- ☒ It minimizes the sum of squared deviations ✓
- ☐ It is affected by extreme scores



The following data show the no of hours worked by 200 statistics students :-

| Number of Hours | Frequency |
|-----------------|-----------|
| 0-9 | 40 |
| 10-19 | 50 |
| 20-29 | 70 |
| 30-39 | 40 |

.....

✗ 13. The class width for this distribution is

0/1

- ☒ 9
- ☐ 10
- ☐ 11
- ☐ varies from class to class
- ☐ None of the above

✗

Correct answer

- ☒ 10

✓ 14. The number of students working 19 hours or less.

1/1

- ☐ 40
- ☐ 50
- ☒ 90
- ☐ Cannot be determined without the original data
- ☐ None of the above

✓



✓ 15. Since the population size is always larger than the sample size, then the sample statistic 1/1

- ☐ can never be larger than the population parameter
- ☐ can never be equal to the population parameter
- ☒ can never be zero
- ☐ can never be smaller than the population parameter
- ☐ None of the above answers are correct



✓ 16. The sum of the percent frequencies for all classes will always be equal 1/1 to

- ☒ one
- ☐ the number of classes
- ☐ the number of items in the study



Students in my undergraduate statistics class, Summer, 2010, were asked to rate how fearful they were of the course (statophobia), using a scale from 0 (absolutely no fear) to 10 (extreme sympathetic arousal and crippling emotions). Here are the data for the male students:

Statoph^a

| | Frequency |
|-------|-----------|
| 5 | 1 |
| 7 | 2 |
| 10 | 1 |
| Total | 4 |

a. Gender = Male

.....

✓ 17. For these 3 scores. (a) Compute the Mean.

1/1

7.25

.....



✗ (b) Compute the median.

.../1

7.5

.....



Correct answer

7



✓ (c) Compute the mode

1/1

7

✓

Feedback

Only 7 is observed twice

✓ (d) Compute the range

1/1

5

✓

✗ (e) Compute the sample variance

.../1

3.1875

✗

Correct answer

3.18

✗ (f) Compute the sample standard deviation

.../1

1.785

✗

Correct answer

1.78



✗ (g) Upon the mean to median computation, identify the shape of the distribution. .../1

positive(right) skewed ✗

Correct answer

Right skewed

Feedback

Mean is greater than median, hence it could be positive skew

✓ 18. Standard Deviation can be negative (True or False) 1/1

☐ True

☒ False ✓

✓ 19. If a positively skewed distribution has a median of 50, which of the following statement is true? 1/1

☒ Mean is greater than 50 ✓

☐ Mean is less than 50

☐ Mode is less than 50

☐ Mode is greater than 50

☐ Both mean is less than 50 and mode is greater than 50



✗ 20. What is the median of the following set of scores? 18, 6, 12, 10, 14, 7, 20, 21 0/1

☒ 12

✗

☐ 13

☐ 7

☐ 10

Correct answer

☒ 13

✓ 21. Which of the following represents the fiftieth percentile, or the middle 1/1 point in a set of numbers arranged in order of magnitude?

☐ Mode

☒ Median

✓

☐ Mean

☐ Variance

✓ 22. Since the mode is the most frequently occurring data value, it 1/1

☐ can never be larger than the mean

☐ is always larger than the median

☐ is always larger than the mean

☒ must have at-least two occurrences

✓

☐ None of the above



✓ 23. Students in two science classes took an exam. Both classes had the same mean score of 76. However Class #1 showed a standard deviation of 10, while Class #2 showed a standard deviation of 16. This means that 1/1

- ☐ Class #2 had better test scores overall than Class #1.
- ☐ there was a wider range of scores in Class #1 than in Class #2.
- ☒ there was a wider range of scores in Class #2 than in Class #1. ✓
- ☐ the average score of Class #2 was 6 points higher than the average score in Class #1.

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