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Indicate whether the statement is true or false.
1. Class width is the number of scores grouped together in an interval, not the scores themselves nor the frequency.
a. True
b. False
2. Class limits are also referred to as raw score limits.
a. True
b. False
3. The percentile rank and percentile scores are identical.
a. True
b. False
4. A frequency distribution is the number of observations associated with each value (or score).
a. True
b. False
5. The range represents the most complex measure of variability.
a. True
b. False
6. Another term for class size is real class limits.
a. True
b. False

- 7. A grouped frequency distribution generally destroys much of the original detail of the data.
 - a. True
 - b. False
- 8. The sum of the frequencies is referred to as cumulative frequency.
 - a. True
 - b. False

9. You have scored in the 65th percentile for your class. This means that your score is greater than or equal to 65% of all the scores in the class.

- a. True
- b. False

Indicate the answer choice that best completes the statement or answers the question.

10. The rule for subsequent computations includes the preferred class size as:

- a. 1, 2, 3, 5, 7, 10, 15, or any multiple of 5
- b. 1, 2, 3, 5
- c. 1, 2, 3, 6, 12, or any multiple of 6
- d. any of the above, it does not matter

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- 11. The table is an arrangement of values that groups data into columns and rows.
 - a. Columns present the data up and down
 - b. Rows present the data across
 - c. Both are correct
 - d. Neither are correct
- 12. When defining class boundaries,
 - a. use the same principle on which rounding of numbers is based
 - b. do not need to round
 - c. round only if you want to
 - d. none of the above
- 13. Which term best defines the end numbers?
 - a. Class interval
 - b. Class limits
 - c. Class boundaries
 - d. Class size
- 14. Which term best defines the difference between the lower and upper class limit?
 - a. Class interval
 - b. Class limits
 - c. Class boundaries
 - d. Class size
- 15. When creating a frequency distribution, the first step is to _____.
 - a. determine the high and low scores
 - b. determine the range
 - c. determine the number of class intervals
 - d. set class limits
- 16. An example of a variable in a frequency distribution is _____.
 - a. third party payers
 - b. males
 - c. newborns
 - d. all of the above

17. Calculate the range for the following data: 50, 14, 12, 22, 99, 70, 25, 29, 81, 54, 19, 80, 18, 36, 72, 69, 38, 56, 66, 24

- a. 85
- b. 68
- c. 81
- d. 87
- 18. If a student scores at the 50th percentile,
 - a. his score is in the middle of the distribution
 - b. his score is the highest score

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c. his score is the median score

d. None of the above

19. To approximate the ______, divide the range by the number of classes desired.

- a. class interval
- b. cumulative frequency
- c. class width
- d. range

20. The "real limits" of the class interval 1-3 are:

- a. 0.5 3.4
- b. 1 3
- c. 0 4
- d. 1.5 3.5

21. The percentile rank is defined as _____.

a. lower than the given score

b. the percentile for a specific score

c. the score that one has to attain to reach a specific percentile

d. higher than the given score

22. Based upon the following information, the upper class limit of the lowest interval is:

Heights (in centimeters) of Patients 175-179 170-174 165-169 160-164 155-159

150-154

a. 150 b. 179

c. 154

d. 175

- 23. The purpose of a grouped frequency distribution is _____.
 - a. to condense data to a more readily grouped form
 - b. to arrange scores
 - c. to bring order to chaos
 - d. a and c

24. A cumulative frequency is _____.

a. the sum of the frequencies, starting at the lowest interval and including the frequencies with that intervalb. the sum of the frequencies, starting at the highest interval and including the frequencies with that interval

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- c. the sum of the frequencies, starting at the lowest interval and excluding the frequencies with that interval
- d. the sum of the frequencies, starting at the highest interval and excluding the frequencies with that interval
- 25. Which best defines the term "quartiles"?
 - a. Position of a score when all scores are arranged in order such as low to high
 - b. Arranged data divided into subgroups
 - c. Arranged data divided into ten equal parts
 - d. Arranged data divided into 100 equal segments
- 26. A frequency can be defined as:
 - a. the sum of the frequencies
 - b. the number of times a certain score appears in a distribution
 - c. the difference between the largest and the smallest score
 - d. the category into which a score can be placed
- 27. In a table, whole numbers most often are right-justified.
 - a. True
 - b. False
- 28. Which best defines the term "percentiles"?
 - a. Position of a score when all scores are arranged in order such as low to high
 - b. Arranged data divided into subgroups
 - c. Arranged data divided into ten equal parts
 - d. Arranged data divided into 100 equal segments
- 29. In a table, decimal numbers must be aligned by the decimal point and have the same number of decimal places.
 - a. True
 - b. False
- 30. Which term is also referred to as real class limits?
 - a. Class interval
 - b. Class limits
 - c. Class boundaries
 - d. Class size
- 31. What is the range in this set of scores: 5,10, 15, 20, 25, 30, 35, 40, 45, and 50?
 - a. 5
 - b. 30
 - c. 45
 - d. 50
- 32. A Table Header or Title is an important component of a table. A table header should clearly answer:
 - a. what the data represents
 - b. what the source of the data is
 - c. when the data was collected and/or the time period represented in the table
 - d. All of the above

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- 33. Which best defines the term "rank"?
 - a. Position of a score when all scores are arranged in order of low to high
 - b. Arranged data divided into subgroups
 - c. Arranged data divided into ten equal parts
 - d. Arranged data divided into 100 equal segments
- 34. _____ are used to present large amounts of text-based quantitative data.
 - a. graphs
 - b. charts
 - c. tables
 - d. polygons

35. A class interval limit of 60 to 69 pounds includes all measurements from _____ to _____.

- a. 59.49 to 69.49
- b. 59.50 to 69.50
- c. 59.50 to 69.49
- d. 60.49 to 69.50

36. Data divided into ten equal parts are referred to as _____.

- a. rank
- b. quartiles
- c. percentiles
- d. deciles
- 37. The text in a table should always be right-justified.
 - a. True
 - b. False
- 38. A class is _____.
 - a. a category into which a score can be placed
 - b. a score or number
 - c. a range of scores
 - d. all of the above
- 39. Which term best defines the range of scores?
 - a. Class interval
 - b. Class limits
 - c. Class boundaries
 - d. Class size
- 40. For interval limits, 40 44, the class size is 4
 - a. True
 - b. False
- 41. The first class interval in the grouped frequency distribution is 5-10. The width of the interval is:

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- a. 5
- b. 5.5
- c. 6
- d. 6.5

42. Which best defines the term "deciles"?

- a. Position of a score when all scores are arranged in order such as low to high
- b. Arranged data divided into subgroups
- c. Arranged data divided into ten equal parts
- d. Arranged data divided into 100 equal segments
- 43. When done manually, tally marks are recorded for each score in the array, and the total tally marks becomes the ______ for each class or category.
 - a. frequency
 - b. range
 - c. interval
 - d. median
- 44. Range can be defined as:
 - a. a category into which a score can be placed
 - b. the number of times a certain score appears in a distribution
 - c. the difference between the largest and the smallest score
 - d. the category into which a score can be placed
- 45. Which best defines a class?
 - a. A category in which a score can be placed
 - b. A single score in a small distribution
 - c. Both a and b
 - d. Neither a nor b
- 46. Which of the following is not one of the four main table elements?
 - a. Table header
 - b. Data
 - c. Table number
 - d. Percentage component
- 47. Not all tables require a ______. This is used to aid the reader in accessing the data.
 - a. table title
 - b. table number
 - c. table footnote
 - d. table heading

Enter the appropriate word(s) to complete the statement.

48. In a frequency distribution in which the lowest value is 5 and the highest value is 20, the range is

49. You are constructing a grouped frequency distribution using length of stay d ranging from 2 days to 16 days. If you select 5 as the number of class interva best class size.	ata. You have length of stay scores als you want,(2, 3, 4, 5) is the
50. The ideal or recommended number of class intervals is	(12, 15, 21, 25).
51. It is recommended that the number of class intervals be at least 5 and no more	re than (15, 20,

52. A(n) ______ (2-word term) is the number of observations of each value or score.

53. In a frequency distribution, the lowest score is 25 and the highest score is 50. What is the range?

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12, 25).

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Answer Key		
1. True		
2. True		
3. True		
4. True		
5. False		
6. False		
7. True		
8. True		
9. True		
10. a		
11. c		
12. a		
13. b		
14. d		
15. a		
16. d		
17. d		
18. c		
19. c		
20. a		
21. b		
22. c		
23. d		
24. a		
25. b		
26. b		

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27. a		
28. d		
29. a		
30. c		
31. c		
32. d		
33. a		
34. c		
35. с		
36. d		
37. b		
38. a		
39. a		
40. b		
41. c		
42. c		
43. a		
44. c		
45. c		
46. d		
47. b		
48. 15 fifteen		
49.3		
50. 15		
51.20		

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52. frequency distribution

53.25