$\qquad$ Class: $\qquad$ Date: $\qquad$

## chapter 2

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
$\qquad$
$\qquad$
$\qquad$

## chapter 2

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 $\qquad$ .
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 $\qquad$ .
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
$\qquad$
$\qquad$
$\qquad$

## chapter 2

c. his score is the median score
d. None of the above
19. To approximate the $\qquad$ , 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 $\qquad$ .
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 $\qquad$ .
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 $\qquad$ .
a. the sum of the frequencies, starting at the lowest interval and including the frequencies with that interval
b. the sum of the frequencies, starting at the highest interval and including the frequencies with that interval
$\qquad$
$\qquad$
$\qquad$

## chapter 2

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
$\qquad$
$\qquad$
$\qquad$

## chapter 2

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. $\qquad$ 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 $\qquad$ to $\qquad$ .
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 $\qquad$ .
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 $\qquad$ .
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:
$\qquad$
$\qquad$
$\qquad$

## chapter 2

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
$\qquad$ 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 $\qquad$ . 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
$\qquad$ Class: $\qquad$ Date: $\qquad$

## chapter 2

49. You are constructing a grouped frequency distribution using length of stay data. You have length of stay scores ranging from 2 days to 16 days. If you select 5 as the number of class intervals you want, $\qquad$ $(2,3,4,5)$ is the best class size.
50. The ideal or recommended number of class intervals is $\qquad$ (12, 15, 21, 25).
51. It is recommended that the number of class intervals be at least 5 and no more than $\qquad$ $(15,20$, 12,25 ).
52. $\mathrm{A}(\mathrm{n})$ $\qquad$ (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?

Name: $\qquad$ Class: $\qquad$ Date: $\qquad$

## chapter 2

## 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
$\qquad$ Class: $\qquad$ Date: $\qquad$

## chapter 2

27. a
28. d
29. a
30. c
31. C
32. d
33. a
34. c
35. C
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

Name: $\qquad$ Class: $\qquad$ Date: $\qquad$ chapter 2
52. frequency distribution
53. 25

