

1. What is the total number of scores in the following frequency distribution?

<u>X</u>	<u>f</u>
4	3
3	5
2	4
1	2

- a. 4
- b. 10
- c. 14
- d. 37

ANSWER: c

REFERENCES: 2.1 Frequency Distributions and Frequency Distribution Tables

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Understand

2. A sample of $n = 15$ scores ranges from a high of $X = 11$ to a low of $X = 3$. If these scores are placed in a frequency distribution table, how many X values will be listed in the first column of that table?

- a. 8
- b. 9
- c. 11
- d. 15

ANSWER: b

REFERENCES: 2. 1 Frequency Distributions and Frequency Distribution Tables

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Understand

3. For the following frequency distribution of quiz scores, how many individuals took the quiz?

<u>X</u>	<u>f</u>
5	6
4	5
3	5
2	3
1	2

- a. $n = 5$
- b. $n = 7$
- c. $n = 15$
- d. $n = 21$

ANSWER: d

REFERENCES: 2. 1 Frequency Distributions and Frequency Distribution Tables

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Understand

4. For the following distribution of quiz scores, if a score of $X = 3$ or higher is needed for a passing grade, how many individuals passed?

<u>X</u>	<u>f</u>
5	6
4	5
3	5
2	3

1 2

- a. 3
- b. 11
- c. 16
- d. 21

ANSWER: c

REFERENCES: 2. 1 Frequency Distributions and Frequency Distribution Tables

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Understand

5. For the following distribution of quiz scores, How many individuals had a score of $X = 2$?

X f

5 6

4 5

3 5

2 3

1 2

- a. 1
- b. 2
- c. 3
- d. 5

ANSWER: c

REFERENCES: 2. 1 Frequency Distributions and Frequency Distribution Tables

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Understand

6. For the following frequency distribution of exam scores, what is the lowest possible reported score on the exam?

X f

90-94 3

85-89 4

80-84 5

75-79 2

70-74 1

- a. $x = 70$
- b. $x = 74$
- c. $x = 90$
- d. $x = 94$

ANSWER: a

REFERENCES: 2.2 Grouped Frequency Distribution Tables

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Understand

7. For the following frequency distribution of exam scores, how many students had scores lower than $X = 80$?

X f

90-94 3

85-89 4

80-84 5

75-79 2

70-74 1

- a. 2
- b. 3
- c. 7
- d. 8

ANSWER: b

REFERENCES: 2.2 Grouped Frequency Distribution Tables

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Understand

8. In a grouped frequency distribution one interval is listed as 50-59. Assuming that the scores are measuring a continuous variable, what are the real limits of this interval?

- a. 50 and 59
- b. 50.5 and 59.5
- c. 49.5 and 59.5
- d. 49.5 and 60.5

ANSWER: c

REFERENCES: 2.2 Grouped Frequency Distribution Tables

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Understand

9. For the following distribution, how many people had scores less than $X = 20$?

<u>X</u>	<u>f</u>
20-25	2
15-19	5
10-14	4
5-9	1

- a. 5
- b. 10
- c. 11
- d. 12

ANSWER: b

REFERENCES: 2.2 Grouped Frequency Distribution Tables

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Understand

10. For the following distribution, what is the highest possible score?

<u>X</u>	<u>f</u>
20-25	2
15-19	5
10-14	4
5-9	1

- a. 5
- b. 20
- c. 25
- d. 26

ANSWER: c

REFERENCES: 2.2 Grouped Frequency Distribution Tables

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Understand

11. For the following distribution, how many people had scores greater than $X = 14$?

<u>X</u>	<u>f</u>
20-25	2
15-19	5
10-14	4
5-9	1

- a. 5
- b. 7
- c. 10
- d. 11

ANSWER: b

REFERENCES: 2.2 Grouped Frequency Distribution Tables

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Understand

12. For the following distribution, what is the width of each class interval?

<u>X</u>	<u>f</u>
20-24	2
5-19	5
10-14	4
5-9	1

- a. 4
- b. 4.5
- c. 5
- d. 10

ANSWER: c

REFERENCES: 2.2 Grouped Frequency Distribution Tables

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Understand

13. If the following continuous distribution was shown in a histogram, the bar above the 15-19 interval would reach from _____ to _____.

<u>X</u>	<u>f</u>
20-25	2
15-19	5
10-14	4
5-9	1

- a. $X = 14.5$ to $X = 19.5$
- b. $X = 15.0$ to $X = 19.0$
- c. $X = 15.5$ to $X = 18.5$
- d. $X = 15.5$ to $X = 19.5$

ANSWER: a

REFERENCES: 2.3 Frequency Distribution Graphs

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Understand

14. In a frequency distribution graph, frequencies are presented on the _____ and the scores (categories) are listed on the _____

- _____.
- a. X axis; Y axis
 - b. horizontal line; vertical line
 - c. Y axis; X axis
 - d. class interval ;horizontal line

ANSWER: c

REFERENCES: 2.3 Frequency Distribution Graphs

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Remember

15. What frequency distribution graph is appropriate for scores measured on a nominal scale?

- a. only a histogram
- b. only a polygon
- c. either a histogram or a polygon
- d. only a bar graph

ANSWER: d

REFERENCES: 2.3 Frequency Distribution Graphs

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Understand

16. The classrooms in the Psychology department are numbered from 100 to 108. A professor records the number of classes held in each room during the fall semester. If these values are presented in a frequency distribution graph, what kind of graph would be appropriate?

- a. a histogram
- b. a polygon
- c. a histogram or a polygon
- d. a bar graph

ANSWER: d

REFERENCES: 2.3 Frequency Distribution Graphs

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Apply

17. A researcher records the number of traffic tickets issued in each county along the New York State thruway. If the results are presented in a frequency distribution graph, what kind of graph should be used?

- a. a bar graph
- b. a histogram
- c. a polygon
- d. either a histogram or a polygon

ANSWER: a

REFERENCES: 2.3 Frequency Distribution Graphs

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Apply

18. What kind of frequency distribution graph shows the frequencies as bars, with no space between adjacent bars?

- a. a bar graph
- b. a histogram
- c. a polygon

d. a pie chart

ANSWER: b

REFERENCES: 2.3 Frequency Distribution Graphs

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Remember

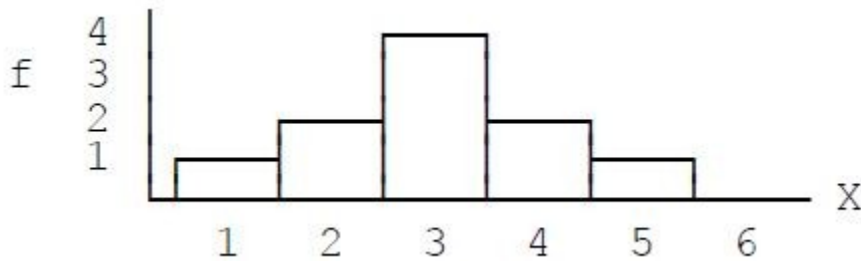


Figure 2.1

19. What scale of measurement was used to measure the scores in the distribution shown in the accompanying graph, Figure 2.1?

- a. nominal
- b. ordinal
- c. interval or ratio
- d. non-numeric

ANSWER: c

REFERENCES: 2.3 Frequency Distribution Graphs

QUESTION TYPE: Multiple Choice

PREFACE NAME: Figure 2.1

KEYWORDS: Bloom's: Understand

20. For the distribution in the accompanying graph, Figure 2.1, what is the value of ΣX ?

- a. 10
- b. 15
- c. 21
- d. 30

ANSWER: d

REFERENCES: 2.3 Frequency Distribution Graphs

QUESTION TYPE: Multiple Choice

PREFACE NAME: Figure 2.1

KEYWORDS: Bloom's: Understand

21. What kind of frequency distribution graph shows the frequencies as bars that are separated by spaces?

- a. a bar graph
- b. a histogram
- c. a polygon
- d. a pie chart

ANSWER: a

REFERENCES: 2.3 Frequency Distribution Graphs

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Remember

22. If a frequency distribution is shown in a bar graph, what scale was used to measure the scores?
- a. nominal
 - b. nominal or ordinal
 - c. ratio
 - d. interval or ratio

ANSWER: b

REFERENCES: 2.3 Frequency Distribution Graphs

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Understand

23. The normal distribution is ____.
- a. asymmetric
 - b. skewed to the right
 - c. skewed to the left
 - d. symmetric

ANSWER: d

REFERENCES: 2.3 Frequency Distribution Graphs

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Remember

24. If a set of exam scores forms a symmetrical distribution, what can we conclude about the students' scores?
- a. Most of the students had relatively high scores.
 - b. Most of the students had relatively low scores.
 - c. About 50% of the students had high scores and the rest had low scores.
 - d. It is not possible to draw any conclusions about the students' scores.

ANSWER: c

REFERENCES: 2.3 Frequency Distribution Graphs

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Apply

25. What term is used to describe the shape of a distribution in which the scores pile up on the left-hand side of the graph and taper off to the right?
- a. symmetrical
 - b. positively skewed
 - c. negatively skewed
 - d. normal

ANSWER: b

REFERENCES: 2.3 Frequency Distribution Graphs

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Remember

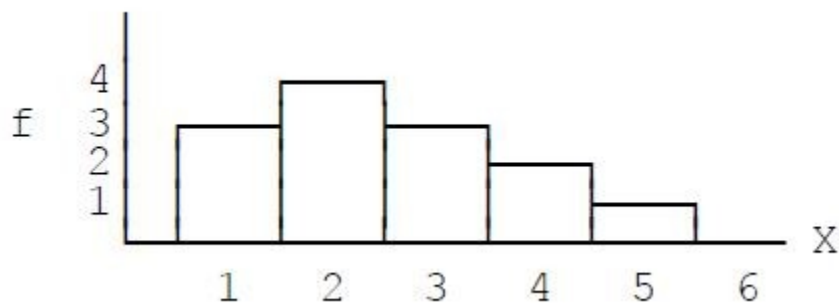


Figure 2-2

26. What is the shape for the distribution shown in the accompanying graph in Figure 2.2?

- a. positively skewed
- b. negatively skewed
- c. symmetrical
- d. normal

ANSWER: a

REFERENCES: 2.3 Frequency Distribution Graphs

QUESTION TYPE: Multiple Choice

PREFACE NAME: Figure 2-2

KEYWORDS: Bloom's: Understand

27. A skewed distribution typically has ____ tail(s) and a normal distribution has ____ tail(s).

- a. 1; 1
- b. 1; 2
- c. 2;;1
- d. 2; 2

ANSWER: b

REFERENCES: 2.3 Frequency Distribution Graphs

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Understand

28. The students in a psychology class seemed to think that the midterm exam was very easy. If they are correct, what is the most likely shape for the distribution of exam scores?

- a. symmetrical
- b. positively skewed
- c. negatively skewed
- d. normal

ANSWER: c

REFERENCES: 2.3 Frequency Distribution Graphs

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Apply

29. In a distribution with positive skew, scores with the highest frequencies are ____.

- a. on the right side of the distribution
- b. on the left side of the distribution
- c. in the middle of the distribution

d. represented at two distinct peaks

ANSWER: b

REFERENCES: 2.3 Frequency Distribution Graphs

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Understand

30. What is the shape of the distribution for the following set of data?

Scores: 1, 2, 3, 3, 4, 4, 4, 5, 5, 5, 5, 6

- a. symmetrical
- b. positively skewed
- c. negatively skewed
- d. cumulative

ANSWER: c

REFERENCES: 2.3 Frequency Distribution Graphs

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Understand

31. For the distribution in the following table, what is the 50th percentile?

<u>X</u>	<u>c%</u>
9	100%
8	80%
7	50%
6	25%

- a. $X = 8$
- b. $X = 7.5$
- c. $X = 7$
- d. $X = 6.5$

ANSWER: b

REFERENCES: 2.4 Percentiles, Percentile Ranks, and Interpolation

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Understand

32. For the distribution in the following table, what is the percentile rank for $X = 8.5$?

<u>X</u>	<u>c%</u>
9	100%
8	80%
7	50%
6	25%

- a. $X = 90\%$
- b. $X = 80\%$
- c. $X = 65\%$
- d. $X = 50\%$

ANSWER: b

REFERENCES: 2.4 Percentiles, Percentile Ranks, and Interpolation

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Understand

33. For the distribution in the following table, what is the 90th percentile?

<u>X</u>	<u>c%</u>
9	100%
8	80%
7	50%
6	25%

- a. $X = 9.5$
- b. $X = 9$
- c. $X = 8.5$
- d. $X = 8$

ANSWER: b

REFERENCES: 2.4 Percentiles, Percentile Ranks, and Interpolation

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Understand

34. For the distribution in the following table, what is the percentile rank for $X = 7$?

<u>X</u>	<u>c%</u>
9	100%
8	80%
7	50%
6	25%

- a. $X = 80\%$
- b. $X = 65\%$
- c. $X = 50\%$
- d. $X = 37.5\%$

ANSWER: d

REFERENCES: 2.4 Percentiles, Percentile Ranks, and Interpolation

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Understand

35. For the distribution in the following table, what is the 90th percentile?

<u>X</u>	<u>c%</u>
30-34	100%
25-29	90%
20-24	60%
15-19	20%

- a. $X = 24.5$
- b. $X = 25$
- c. $X = 29$
- d. $X = 29.5$

ANSWER: d

REFERENCES: 2.4 Percentiles, Percentile Ranks, and Interpolation

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Understand

36. For the distribution in the following table, what is the percentile rank for $X = 24.5$?

<u>X</u>	<u>c%</u>
30-34	100%
25-29	90%

20-24 60%

15-19 20%

a. 40%

b. 60%

c. 75%

d. 90%

ANSWER: b

REFERENCES: 2.4 Percentiles, Percentile Ranks, and Interpolation

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Understand

37. For the distribution in the following table, what is the 50th percentile?

X c%

50-59 100%

40-49 90%

30-39 60%

20-29 20%

a. X = 32

b. X = 35

c. X = 35

d. X = 39

ANSWER: c

REFERENCES: 2.4 Percentiles, Percentile Ranks, and Interpolation

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Understand

38. For the distribution in the following table, what is the percentile rank for X = 32?

X c%

30-34 100%

25-29 90%

20-24 60%

15-19 20%

a. 92%

b. 92.5

c. 95%

d. 97.5%

ANSWER: c

REFERENCES: 2.4 Percentiles, Percentile Ranks, and Interpolation

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Understand

8	314
7	945
6	7042
5	68
4	14

Figure 2-3

39. For the scores shown in the accompanying stem and leaf display, Figure 2-3, what is the highest score in the distribution?

- a. 8
- b. 83
- c. 84
- d. 7042

ANSWER: c

REFERENCES: 2.5 Stem and Leaf Displays

QUESTION TYPE: Multiple Choice

PREFACE NAME: Figure 2-3

KEYWORDS: Bloom's: Understand

40. If the following scores were placed in a stem and leaf display, how many leaves would be associated with a stem of 6?

Scores: 26, 45, 62, 11, 21, 55, 66

64, 55, 46, 38, 41, 27, 29

36, 51, 32, 25, 34, 44, 59

- a. 1
- b. 2
- c. 3
- d. 4

ANSWER: c

REFERENCES: Stem and Leaf Displays

QUESTION TYPE: Multiple Choice

KEYWORDS: Bloom's: Understand

41. A researcher surveys a sample of $n = 200$ college students and asks each person to identify his or her favorite movie from the past year. If the data were organized in a frequency distribution table, the first column would be a list of movies.

- a. True
- b. False

ANSWER: True

REFERENCES: 2. 1 Frequency Distributions and Frequency Distribution Tables

QUESTION TYPE: True / False

KEYWORDS: Bloom's: Apply

42. A group of quiz scores ranges from 3 to 10, but no student had a score of $X = 5$. If the scores are put in a frequency distribution table, $X = 5$ would not be listed in the X column.

- a. True
- b. False

ANSWER: False

REFERENCES: 2. 1 Frequency Distributions and Frequency Distribution Tables

QUESTION TYPE: True / False

KEYWORDS: Bloom's: Apply

43. It is customary to list the score categories in a frequency distribution from the highest down to the lowest.

- a. True
- b. False

ANSWER: True

REFERENCES: 2. 1 Frequency Distributions and Frequency Distribution Tables

QUESTION TYPE: True / False

KEYWORDS: Bloom's: Understand

44. There is a total of $n = 5$ scores in the distribution shown in the following table.

<u>X</u>	<u>f</u>
5	2
4	8
3	5
2	3
1	2

a. True

b. False

ANSWER: False

REFERENCES: 2. 1 Frequency Distributions and Frequency Distribution Tables

QUESTION TYPE: True / False

KEYWORDS: Bloom's: Understand

45. For the following distribution of scores, 20% of the individuals have scores of $X = 1$.

<u>X</u>	<u>f</u>
5	2
4	8
3	5
2	3
1	2

a. True

b. False

ANSWER: False

REFERENCES: 2. 1 Frequency Distributions and Frequency Distribution Tables

QUESTION TYPE: True / False

KEYWORDS: Bloom's: Understand

46. For the following distribution of scores, $\sum X = 18$.

<u>X</u>	<u>f</u>
4	1
3	2
2	3
1	2

a. True

b. False

ANSWER: True

REFERENCES: 2. 1 Frequency Distributions and Frequency Distribution Tables

QUESTION TYPE: True / False

KEYWORDS: Bloom's: Understand

47. For the following distribution of scores, $\sum X^2 = 92$.

<u>X</u>	<u>f</u>
4	1

3	2
2	3
1	2

- a. True
- b. False

ANSWER: False

REFERENCES: 2. 1 Frequency Distributions and Frequency Distribution Tables

QUESTION TYPE: True / False

KEYWORDS: Bloom's: Understand

48. A grouped frequency distribution table lists one interval as, 20-29. The width of this interval is 9 points.

- a. True
- b. False

ANSWER: False

REFERENCES: 2.2 Grouped Frequency Distribution Tables

QUESTION TYPE: True / False

KEYWORDS: Bloom's: Understand

49. In a grouped frequency distribution table, one interval is identified as 30-34. This interval has a width of 5 points.

- a. True
- b. False

ANSWER: True

REFERENCES: 2.2 Grouped Frequency Distribution Tables

QUESTION TYPE: True / False

KEYWORDS: Understand

50. If a set of scores covers a range of 80 points, the grouped frequency table should use an interval width of 8 points.

- a. True
- b. False

ANSWER: False

REFERENCES: 2.2 Grouped Frequency Distribution Tables

QUESTION TYPE: True / False

KEYWORDS: Bloom's: Understand

51. A set of scores ranges from $X = 18$ to $X = 91$. If the scores are put in a grouped frequency distribution table with an interval width of 10 points, the top interval would be 91-100.

- a. True
- b. False

ANSWER: False

REFERENCES: 2.2 Grouped Frequency Distribution Tables

QUESTION TYPE: True / False

KEYWORDS: Bloom's: Understand

52. In a grouped frequency distribution table, the top value in each class interval should be a multiple of the interval width.

- a. True
- b. False

ANSWER: False

REFERENCES: 2.2 Grouped Frequency Distribution Tables

QUESTION TYPE: True / False

KEYWORDS: Bloom's: Remember

53. A set of scores ranges from a low of $X = 18$ to a high of $X = 98$. If the scores are put in a grouped frequency distribution table with an interval width of 10 points, the bottom interval should be 10-19.

a. True

b. False

ANSWER: True

REFERENCES: 2.2 Grouped Frequency Distribution Tables

QUESTION TYPE: True / False

KEYWORDS: Bloom's: Understand

54. A grouped frequency distribution table does not provide enough information to obtain a complete listing of the original set of scores.

a. True

b. False

ANSWER: True

REFERENCES: 2.2 Grouped Frequency Distribution Tables

QUESTION TYPE: True / False

KEYWORDS: Bloom's: Understand

55. For the following distribution, seven people have scores greater than $X = 14$.

<u>X</u>	<u>f</u>
20-24	2
15-19	5
10-14	4
5-9	1

a. True

b. False

ANSWER: True

REFERENCES: 2.2 Grouped Frequency Distribution Tables

QUESTION TYPE: True / False

KEYWORDS: Bloom's: Understand

56. In the following distribution, the scores are grouped into class intervals that are each 5 points wide.

<u>X</u>	<u>f</u>
20-24	2
15-19	5
10-14	4
5-9	1

a. True

b. False

ANSWER: True

REFERENCES: 2.2 Grouped Frequency Distribution Tables

QUESTION TYPE: True / False

KEYWORDS: Bloom's: Understand

57. A professor records the number of students who are absent each day for the semester. Because this is a numeric, discrete variable, a bar graph should be used to show the frequency distribution.

- a. True
- b. False

ANSWER: False

REFERENCES: 2.3 Frequency Distribution Graphs

QUESTION TYPE: True / False

KEYWORDS: Bloom's: Apply

58. A researcher surveys a sample of $n = 200$ college students and asks each person to identify his or her favorite movie from the past year. If the results are presented in a frequency distribution graph, the researcher should use a bar graph.

- a. True
- b. False

ANSWER: True

REFERENCES: 2.3 Frequency Distribution Graphs

QUESTION TYPE: True / False

KEYWORDS: Bloom's: Apply

59. If it is appropriate to present a distribution of scores in a polygon, then it would also be appropriate to present the scores in a bar graph.

- a. True
- b. False

ANSWER: False

REFERENCES: 2.3 Frequency Distribution Graphs

QUESTION TYPE: True / False

KEYWORDS: Bloom's: Understand

60. A histogram is constructed so that adjacent bars touch.

- a. True
- b. False

ANSWER: True

REFERENCES: 2.3 Frequency Distribution Graphs

QUESTION TYPE: True / False

KEYWORDS: Bloom's: Remember

61. The normal distribution is an example of a symmetrical distribution.

- a. True
- b. False

ANSWER: True

REFERENCES: 2.3 Frequency Distribution Graphs

QUESTION TYPE: True / False

KEYWORDS: Bloom's: Remember

62. In February in New York, the daily high temperatures are typically low with only a few relatively warm days. A frequency distribution showing the daily high temperatures would probably form a negatively skewed distribution.

- a. True

b. False

ANSWER: False

REFERENCES: 2.3 Frequency Distribution Graphs

QUESTION TYPE: True / False

KEYWORDS: Bloom's: Apply

63. The scores for a very easy exam would probably form a positively skewed distribution.

a. True

b. False

ANSWER: False

REFERENCES: 2. 3 Frequency Distribution Graphs

QUESTION TYPE: True / False

KEYWORDS: Bloom's: Apply

64. If a set of exam scores forms a negatively skewed distribution, it suggests that the majority of the students did not score well on the exam.

a. True

b. False

ANSWER: False

REFERENCES: 2. 3 Frequency Distribution Graphs

QUESTION TYPE: True / False

KEYWORDS: Bloom's: Apply

65. A score equal to the 5th percentile is one of the highest scores in the distribution.

a. True

b. False

ANSWER: False

REFERENCES: 2.4 Percentiles, Percentile Ranks, and Interpolation

QUESTION TYPE: True / False

KEYWORDS: Bloom's: Understand

66. For the distribution in the following table, the 80th percentile is $X = 24$.

<u>X</u>	<u>c%</u>
25-29	100%
20-24	80%
15-19	20%

a. True

b. False

ANSWER: False

REFERENCES: 2.4 Percentiles, Percentile Ranks, and Interpolation

QUESTION TYPE: True / False

KEYWORDS: Bloom's: Understand

67. For the distribution in the following table, the percentile rank for $X = 19.5$ is 20%.

<u>X</u>	<u>c%</u>
25-29	100%
20-24	80%
15-19	20%

a. True

b. False

ANSWER: True

REFERENCES: 2.4 Percentiles, Percentile Ranks, and Interpolation

QUESTION TYPE: True / False

KEYWORDS: Bloom's: Understand

68. For the distribution in the following table, the 90th percentile is $X = 27.5$.

<u>X</u>	<u>c%</u>
25-29	100%
20-24	80%
15-19	20%

a. True

b. False

ANSWER: False

REFERENCES: Percentiles, Percentile Ranks, and Interpolation

QUESTION TYPE: True / False

KEYWORDS: Bloom's: Understand

69. For the distribution in the following table, the percentile rank for $X = 25$ is 82%.

<u>X</u>	<u>c%</u>
25-29	100%
20-24	80%
15-19	20%

a. True

b. False

ANSWER: True

REFERENCES: 2.4 Percentiles, Percentile Ranks, and Interpolation

QUESTION TYPE: True / False

KEYWORDS: Bloom's: Understand

70. A stem and leaf display does not provide enough information to obtain a complete listing of the original set of scores.

a. True

b. False

ANSWER: False

REFERENCES: 2.5 Stem and Leaf Displays

QUESTION TYPE: True / False

KEYWORDS: Bloom's: Understand

71. Find each value requested for the set of scores in the following frequency distribution table.

	<u>Score</u>	<u>f</u>
a. n	5	1
b. ΣX	4	2
c. ΣX^2	3	3
	2	5
	1	2

ANSWER: a. $n = 13$

b. $\Sigma X = 34$

c. $\Sigma X^2 = 106$

REFERENCES: 2. 1 Frequency Distributions and Frequency Distribution Tables

QUESTION TYPE: Essay

KEYWORDS: Bloom's: Understand

72. Briefly explain what information is available in a regular frequency distribution table that is not available in a grouped table.

ANSWER: A regular table identifies each individual score exactly. However, in a grouped table, you simply know that an individual score is located in a particular interval, but you do not know its exact value.

REFERENCES: 2.2 Grouped Frequency Distribution Tables

QUESTION TYPE: Essay

KEYWORDS: Bloom's: Understand

73. For the following scores:

a. Construct a frequency distribution table.

b. Sketch a histogram of the frequency distribution.

6, 4, 3, 5, 4, 2, 4

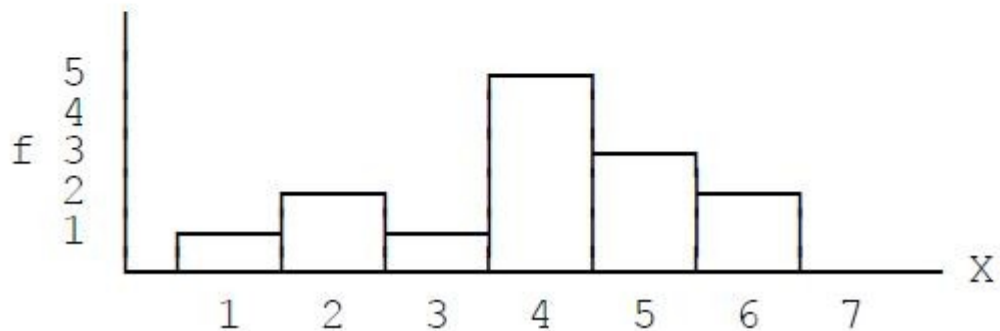
5, 4, 6, 1, 4, 5, 2

ANSWER:

a.

X	f
6	2
5	3
4	5
3	1
2	2
1	1

b.



REFERENCES: 2.3 Frequency Distribution Graphs

QUESTION TYPE: Essay

KEYWORDS: Bloom's: Understand

74. For the distribution shown in the following table:

a. Find the percentile rank for $X = 14.5$.

b. Find the 60th percentile.

c. Find the percentile rank for $X = 11$.

d. Find the 66th percentile.

X	f	cf	c%
25-29	4	25	100%
20-24	6	21	84%
15-19	7	15	60%
10-14	5	8	32%
5-9	3	3	12%

ANSWER: a. 32%
b. $X = 19.5$
c. 18%
d. $X = 20.75$

REFERENCES: 2.4 Percentiles, Percentile Ranks, and Interpolation

QUESTION TYPE: Essay

KEYWORDS: Bloom's: Understand

75. Construct a stem and leaf display for the following scores.

30, 23, 58, 28, 35, 67, 27, 42, 46, 35

51, 33, 18, 33, 25, 38, 48, 36, 31, 39

ANSWER: 6 | 7
5 | 18
4 | 826
3 | 033586159
2 | 3857
1 | 8 Key: 6|7 = 67

REFERENCES: 2.5 Stem and Leaf Displays

QUESTION TYPE: Essay

KEYWORDS: Bloom's: Understand