AS2 (Assignment 2, Unit 1): Data Organization

Please highlight the correct answer choice like this: a

1. A sample of n = 40 scores ranges from a high of X = 11 to a low of X = 5. If these scores are placed in a frequency distribution table, how many X values will be listed in the first column?

a. 6
b. 7
c. 9
d. 20

2. For the following frequency distribution, how many individual scores are in the entire set?

	X	f
a. N = 54	5	2
b. N = 12	4	6
c. N = 14	3	1
d. impossible to determine	2	3

3 For the following frequency distribution, how many individuals had a score of X = 5?

	X	f
a. 1	5	2
b. 2	4	4
c. 3	3	1
d. 4	2	3

4 For the following frequency distribution, what is the value of ΣX?

	X	f
a. 10	5	2
b. 14	4	4
c. 25	3	1
d. 35	2	3

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

	X	f
a. n = 5	5	6
b. n = 15	4	5
c. n = 21	3	5
d. cannot be determined	2	3
	1	2

6. 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?

	X	f
a. 3	5	6
b. 11	4	5
c. 16	3	5
d. cannot be determined	2	3
	1	2

7. 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

8. What kind of frequency distribution graph is appropriate for scores measured on an interval or ratio scale?

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

9. A mechanic recorded the type of vehicle for each vehicle in his car sale lot. If the data are presented in a frequency distribution graph, what type of graph should be used?

a. bar graph

b. a histogram
c. a polygon
d. either a histogram or a polygon

10. A researcher records the number of intersections in each city in Michigan. 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

11. A soccer coach recorded the time each player took to shoot a penalty kick. If the data are presented in a frequency distribution graph, what type of graph should be used?

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

d. either a histogram or a polygon

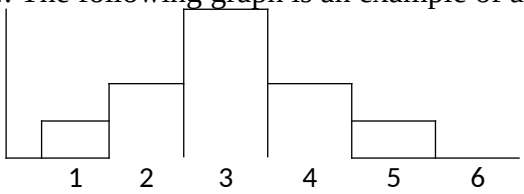
12. What kind of frequency distribution graph shows the frequencies as bars that are separated by spaces?

a. bar graph
b. a histogram
c. a polygon
d. all of the above

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

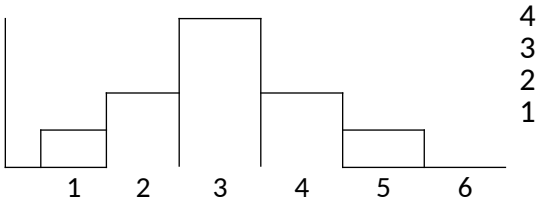
a. bar graph
b. a histogram
c. a polygon
d. all of the above

14. The following graph is an example of a _____



a. bar graph
b. histogram
c. polygon
d. none of the others

15. For the distribution in the following graphs, how many individuals had a score of X=3?

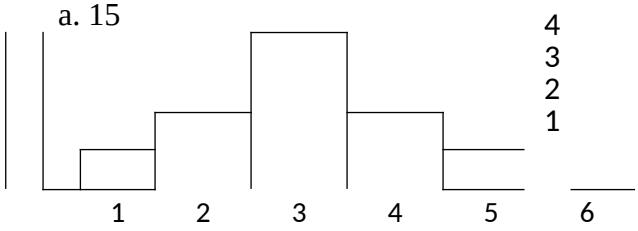


a. 1
b. 2
c. 3
d. 4

For question 15 I added the letter d and the number because they were not available.

16. For the distribution in the following graph, what is the value of ΣX?

a. 15



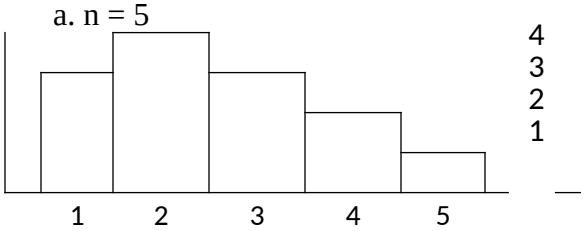
b. 21

c. 30

d. cannot determine

17. How many individual scores are in the distribution shown in the following graph?

a. n = 5

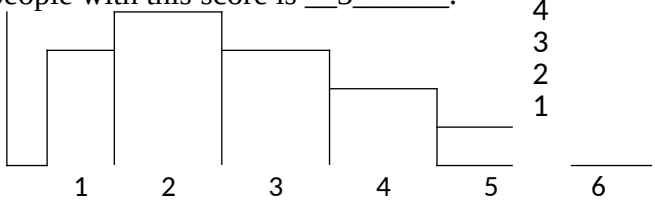


b. n = 6

c. n = 13

d. cannot determine

18. For the distribution in the following graph, the lowest score is X = ___1____ and the number of people with this score is __3_____.



a. 1, 1

b. 1, 3

c. 5, 1

d. 2, 4

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

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

n = ____16_____ ΣX = _____37_____ $(\Sigma X)^2$ = 1369_____

Are the data from a sample or population? __sample_____

20. On SPSS, please construct a frequency table and histogram for the following data:

8, 5, 6, 4, 8, 7, 2, 8, 5, 8, 9, 7, 7, 6, 6, 4, 3, 5, 8, 9, 7

and paste your SPSS results here:

21. On SPSS: Construct a frequency table and generate the appropriate graph for the following data which represent the number of times that participants blinked in one minute:

2, 3, 1, 4, 2, 5, 3, 3, 1, 2, 2, 4, 6, 5, 5, 4, 4, 4, 2, 6, 3, 7, 2, 4, 1, 2, 5, 3,4,4,5,4,5,3,2,1,2

Paste your SPSS results here:

I wasn't able to complete questions 20 and 21 because I can't download spss on my laptop because it's not compatible with my laptop. I bought a new laptop but it doesn't arrive until the 17th-19th.

22. Provide the Statistical Notation for the following (you may have to use the insert symbol option on your word menu):

Mean of a population _____ų_____

Mean of a sample _____M_____

Number of scores in a population _____N_____

Number of scores in a sample _____n_____

A raw score _____X_____

Sum _____Σ_____

Sum the scores _____ΣX_____

Sum the scores and square them ____(ΣX)^2_____

Square each score and then add up the squared scores ___ΣX^2_____

23. What is the *purpose* of a frequency distribution table?
A frequency distribution table helps keep data from a sample organized.

24. Is a frequency table a descriptive or inferential method? Descriptive Method

25. The following frequency distribution is from an Introduction to Psychology class quiz. Based on the data, please answer the questions below:

X	f
8	2
7	3
6	0
5	4
4	1
3	5

What is the range of data? ___5_____

How many students took the quiz? __15_____

How many students received a score of 5? ___4_____

How many students received a score of 8? ____2_____

How many students got a score higher than 6?__5_____

How many students got a score lower than 5? ___6_____

N = _____15_____

ΣX = ___76_____