AS2 (Assignment 2, Unit 1): Data Organization

Please highlight the correct answer choice like this: a

1. A sample of n = 50 scores ranges from a high of X = 16 to a low of X = 8. If these scores are placed in a frequency distribution table, how many X values will be listed in the first column?

   a. 6
   b. 8
   c. 9
   d. 7

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

	X	f
a. N = 4	5	2
b. N = 51	4	6
c. N = 14	3	3
d. N = 15	2	4

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

	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. 9	5	2
b. 14	4	4
c. 33	3	1
d. 31	2	2

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

	X	f
a. n = 14	5	6
b. n = 19	4	5
c. n = 71	3	5
d. cannot be determined	2	3

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

a. 16
b. 15
c. 10
d. cannot be determined

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

7. What frequency distribution graph is appropriate for scores measured on a ratio 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 representing data for eye color?
   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 one family homes on each block in a one mile square area of NJ. 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 not 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 space between adjacent bars?

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

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

X	f
5	1
4	4
3	3
2	5
1	7

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

Are the data from a sample or population? _____

15. 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, 6, 8, 7, 7, 6, 6, 4, 3, 5, 8, 9, 7, 7, 8, 8

and paste your SPSS results here:

16. 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, 3,4,4,5,4,8,9,11,12

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

Mean of a population _____

Mean of a sample _____

Number of scores in a population _____

Number of scores in a sample _____

A raw score _____

Sum _____

Sum the scores _____

Sum the scores and then square the sum_____

Square each score and then add up the squared scores _____

18. What is the *purpose* of a frequency distribution table?

_____
_____
_____

19. Is a frequency table a descriptive or inferential method? _____

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

X	f
9	2
7	3
6	0
5	3
4	4

What is the range of data? _____

How many students took the quiz? _____

How many students received a score of 5? _____

How many students received a score of 4? _____

How many students got a score higher than 6?_____

How many students got a score lower than 5? _____

N = _____

ΣX = _____