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?

a. N = 54
b. N = 12
c. N = 14
d. impossible to determine

X	f
5	2
4	6
3	1
2	3

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

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

X	f
5	2
4	4
3	1
2	3

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

a. 10
b. 14
c. 25
d. 35

X	f
5	2
4	4
3	1
2	3

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

a. n = 5
b. n = 15
c. n = 21
d. cannot be determined

X	f
5	6
4	5
3	5
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?

a. 3
b. 11
c. 16
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 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 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 the above

14. 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

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

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, 3,4,4,5,4,5,3,2,1,2

Paste your SPSS results here: **I apologize for leaving question 15 and 16 blank. I am having difficulty uploading the SPPS on to my computer.**

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 u

Mean of a sample M

Number of scores in a population N

Number of scores in a sample n

A raw score X

Sum E

Sum the scores EX

Sum the scores and square them (EX)2

Square each score and then add up the squared scores EX2

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

The purpose of the frequency table is to organize the data.

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

20. 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