AS2(Assignment 2, Unit 1): Data Organization

Please highlight the correct answer choice like this: <mark>a</mark>

C

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

D

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

A

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

C

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

B

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

B
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?

	X	f
a. 16	5	6
b. 15	4	5
c. 10	3	5
d. cannot be determined	2	3
	1	2

C
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

D
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

A
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

D
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

D

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

B

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

A

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

$n =$ __20__ $\Sigma X =$ ___47___ $(\Sigma X)^2 =$ ____2209____

Are the data from a sample or population? __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:

Statistics

DATA

N	Valid	27
	Missing	0

DATA

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2.00	1	3.7	3.7	3.7
	3.00	1	3.7	3.7	7.4
	4.00	2	7.4	7.4	14.8
	5.00	3	11.1	11.1	25.9
	6.00	4	14.8	14.8	40.7
	7.00	6	22.2	22.2	63.0
	8.00	8	29.6	29.6	92.6
	9.00	2	7.4	7.4	100.0
	Total	27	100.0	100.0	

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:

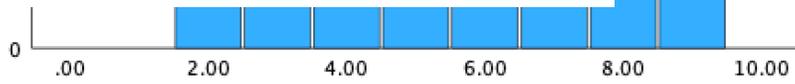2, 3, 1, 4, 2, 5, 3, 3, 1, 2, 2, 4, 6, 5, 5, 4, 4, 4, 2, 6, 3, 7, 2, 4, 1, 2, 5, 3,4,4,5,4,8,9,11,12
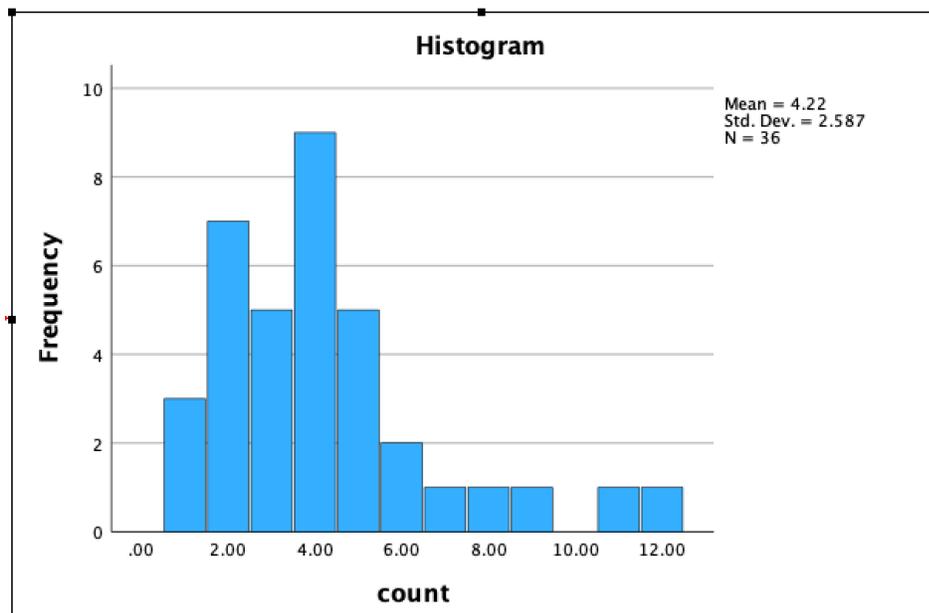
Statistics

count

N		
	Valid	36
	Missing	0

count

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00	3	8.3	8.3	8.3
	2.00	7	19.4	19.4	27.8
	3.00	5	13.9	13.9	41.7
	4.00	9	25.0	25.0	66.7
	5.00	5	13.9	13.9	80.6
	6.00	2	5.6	5.6	86.1
	7.00	1	2.8	2.8	88.9
	8.00	1	2.8	2.8	91.7
	9.00	1	2.8	2.8	94.4
	11.00	1	2.8	2.8	97.2
	12.00	1	2.8	2.8	100.0
	Total	36	100.0	100.0	

Mean = 6.52
Std. Dev. = 1.805
N = 27

DATA

Histogram

Mean = 4.22
Std. Dev. = 2.587
N = 36

Frequency (y-axis): 0, 2, 4, 6, 8, 10

count (x-axis): .00, 2.00, 4.00, 6.00, 8.00, 10.00, 12.00

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 _____ μ _____

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 then square the sum _____ $(\Sigma X)^2$ _____

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

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

___It manage and organize data using the descriptive statistic methods. It the way to show a frequency of an observation or event into a set of value, that it fall in each range.___

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

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? ___5_____

How many students took the quiz? _____12_____

How many students received a score of 5? ___3___

How many students received a score of 4? ___4_____

How many students got a score higher than 6?___5___

How many students got a score lower than 5? __4_____

N = ___12_____

ΣX = ___70_____