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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?

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 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. 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 = ___15 $(\Sigma X)^2$ = ____225

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:

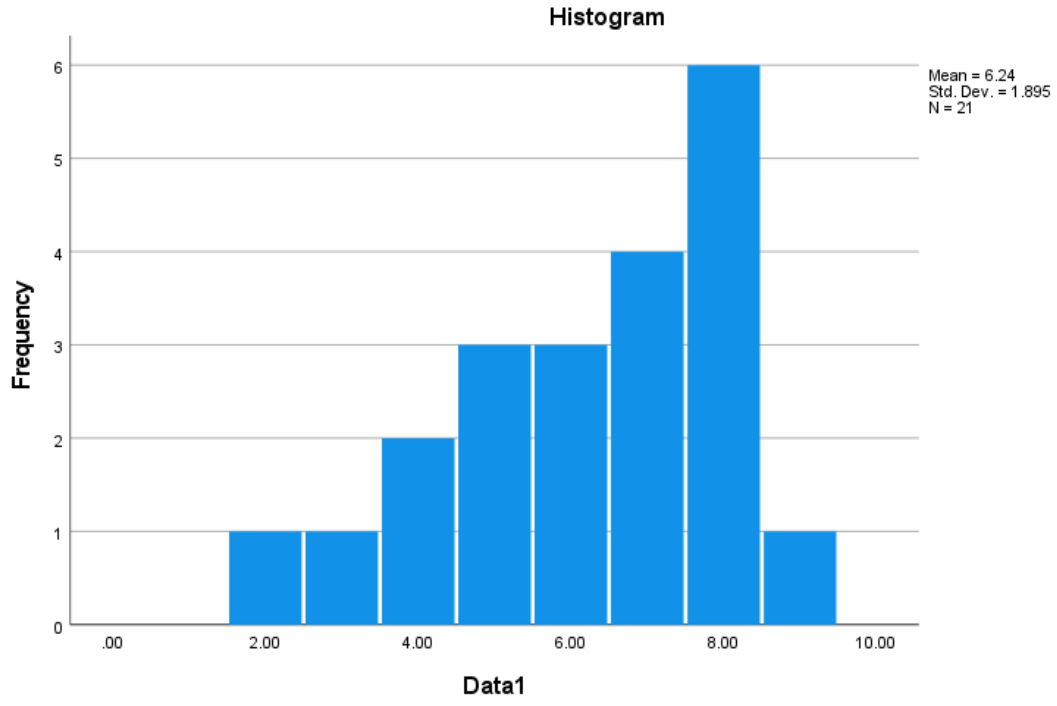
Statistics

Data1

N	Valid	21
	Missing	0

Data1

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2.00	1	4.8	4.8	4.8
	3.00	1	4.8	4.8	9.5
	4.00	2	9.5	9.5	19.0
	5.00	3	14.3	14.3	33.3
	6.00	3	14.3	14.3	47.6
	7.00	4	19.0	19.0	66.7
	8.00	6	28.6	28.6	95.2
	9.00	1	4.8	4.8	100.0
	Total	21	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, 3,4,4,5,4,5,3,2,1,2

Paste your SPSS results here:

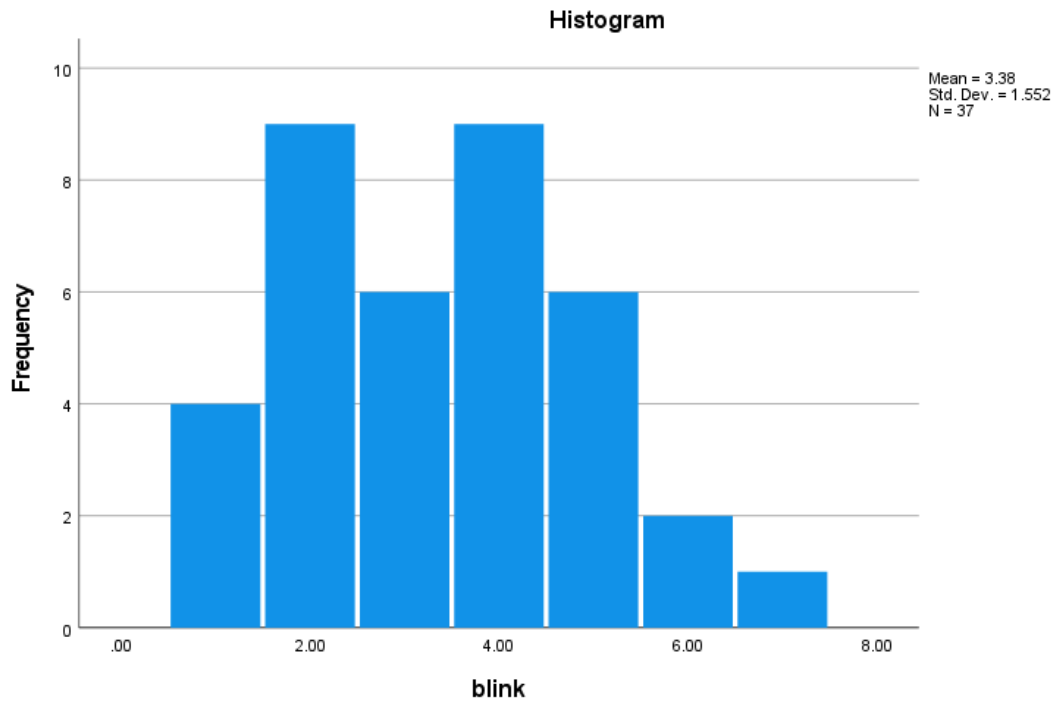
Statistics

blink

N	Valid	37
	Missing	0

blink

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00	4	10.8	10.8	10.8
	2.00	9	24.3	24.3	35.1
	3.00	6	16.2	16.2	51.4
	4.00	9	24.3	24.3	75.7
	5.00	6	16.2	16.2	91.9
	6.00	2	5.4	5.4	97.3
	7.00	1	2.7	2.7	100.0
	Total	37	100.0	100.0	



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 __ $\sum$

Sum the scores __ $\sum X$

Sum the scores and square them __ $(\sum X)^2$

Square each score and then add up the squared scores __ $\sum X^2$

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

__The purpose of a frequency distribution table is to organize the data set showing the number of observations located in each category on a scale of measurement.

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

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? ___3 to 8

How many students took the quiz? __76

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? __9

N = ___6

ΣX = ___33