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 of the above

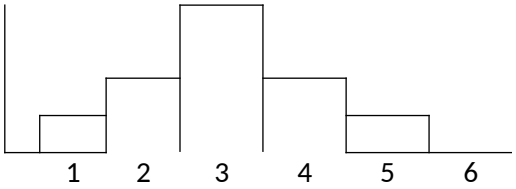
13.What kind of frequency distribution graph shows the frequencies as bars, with no space between adjacent bars?

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

4
3
2
1

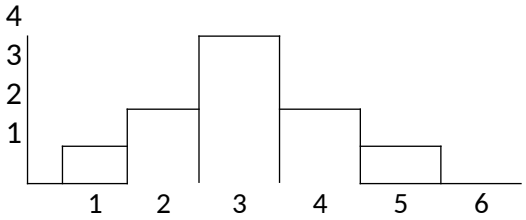
14. The following graph is an example of a _____

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



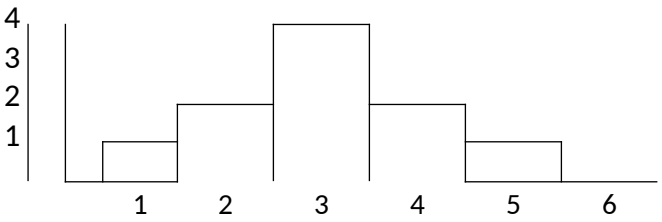
15. For the distribution in the following graphs, how many individuals had a score of X=3?

a. 1
b. 2
c. 3



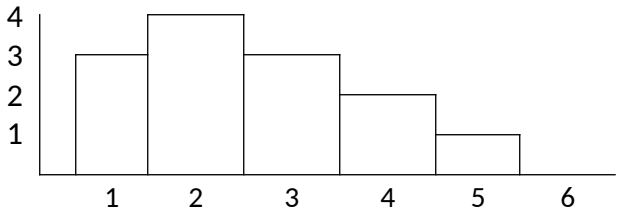
16. For the distribution in the following graph, what is the value of ΣX?

a. 15
b. 21
c. 30
d. cannot determine



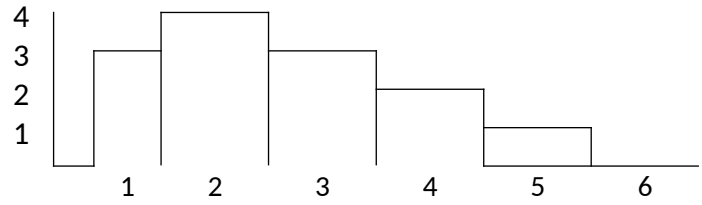
17. How many individual scores are in the distribution shown in the following graph?

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 = _____ and the number of people with this score is _____.

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 = _____5____ ΣX = _____67_____ $(\Sigma X)^2 = (15)2= 134$

Are the data from a sample or population? Population

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

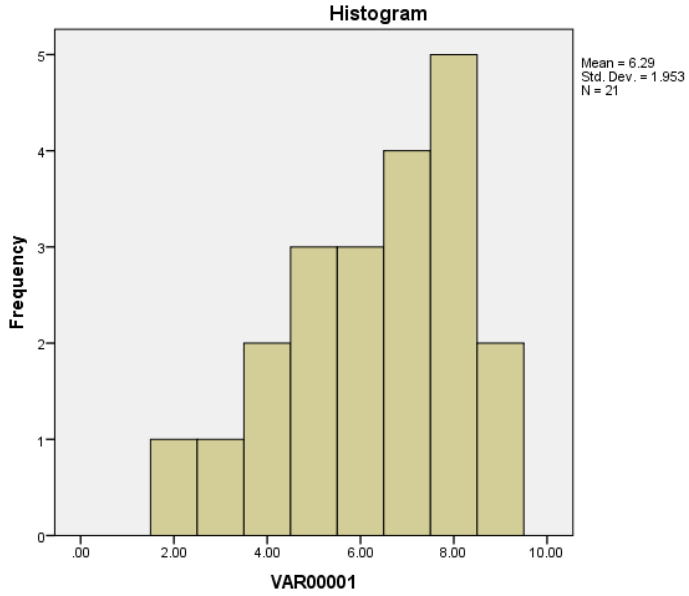
8, 5, 6, 4, 8, 7, 2, 8, 5, 8, 9, 7, 7, 6, 6, 4, 3, 5, 8, 9, 7

and paste your SPSS results here:

Statistics
VAR00001
N Valid 21
Missing 0

VAR00001

		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	5	23.8	23.8	90.5
	9.00	2	9.5	9.5	100.0
	Total	21	100.0	100.0	



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:

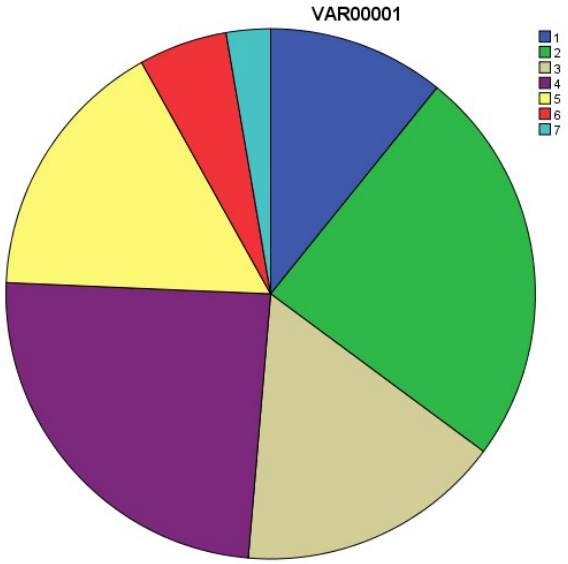
Statistics

VAR00001

N	Valid	37
	Missing	0

VAR00001

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	4	10.8	10.8	10.8
	2	9	24.3	24.3	35.1
	3	6	16.2	16.2	51.4
	4	9	24.3	24.3	75.7
	5	6	16.2	16.2	91.9
	6	2	5.4	5.4	97.3
	7	1	2.7	2.7	100.0
	Total	37	100.0	100.0	



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 _____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 the scores _____EX_____

Sum the scores and square them __(EX)2_____

Square each score and then add up the squared scores ___EX2_____

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

_The purpose of a frequency distribution table is to organize data, summarize values and their frequency. A frequency table has two columns.

_____
_____
_____

24. Is a frequency table a descriptive or inferential method? _____descriptive_____

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? _0-5_____

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? ____4____

N = _____15_____

ΣX = _____82_____