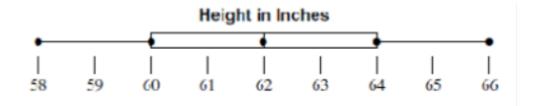
1. Find the median of the set of numbers: 1,2,3,4,5,6,7,8,9 and 10. *	1 point
 55 10 1 5.5 	
2. Find the mode from these test results: 90, 80, 77, 86, 90, 91, 77, 66, 69, 65, 43, 65, 75, 43, 90. *	1 point
O 43	
O 77	
O 65	
90	
3. The following numbers represent the ages of people on a bus: 3, 6, 27, 13, 6, 8, 12, 20, 5, 10. Calculate the mean of their ages. *	1 point
11	
O 6	
O 9	
O 110	

- 4. Calculate the interquartile range of the following data 17, 18, 18, 19, 20, 21, 21, 23, 25 * 2 points
- 3

- 5. What value is the lower quartile (Q1)? *

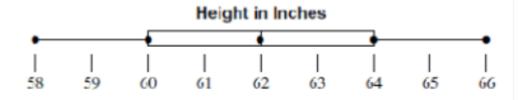
2 points



- 66
- 58

6. What data value is the upper quartile (Q3)? *

2 points



- 62
- 66
- 58

7. What is the variance for the data given : 5, 10, 7, 12, 0, 20, 15, 22, 8, 2 \star

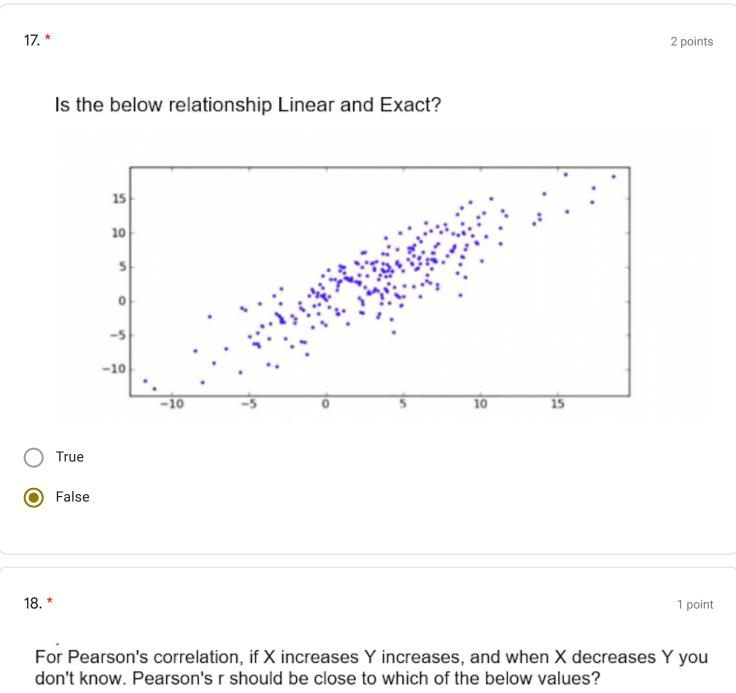
1 point

- 47.49
- 102.01
- 52.77
- 81

8. If 10 is added to every value in a set of data, what will happen to the value of the standard deviation? *	2 points
it will increase	
it will decrease	
it will stay the same	
it will both increase and decrease	
9. If mean=50, mode=40, and standard deviation=5, the distribution is: *	2 points
Positively skewed	
Negatively skewed	
Symmetrical	
O Difficult to tell	
10. The lower and upper quartiles of distribution are 80 and 120 respectively, while the median is 100. The shape of the distribution is: *	2 points
O Positively skewed	
Negatively skewed	
Symmetrical	
Normal	

11. The degree of peakedness or flatness of a unimodal distribution is called: *	2 points
Skewness	
Symmetry	
Dispersion	
Kurtosis	
12. Standard deviation is always calculated from: *	2 points
Mean	
Median	
Mode	
Cower quartile	
13. *	1 point
if we have 3 datasets in which dataset 1 has 10 observations, dataset 2 has 20	
observations, and dataset 3 has 30 observations, what will be a true statement when	n the
mean for all three datasets are equal.	
Dataset 1 has the smallest variance	
Dataset 3 has the maximum variance	
All datasets have the same variance	
None the above	

14. *	2 points
Which statistical measurement is affected by outliers the most?	
Range	
mean	
mode	
median	
15. *	2 points
Covariance indicates the strength of the linear relationship between vari	ables
○ True	
False	
16. *	2 points
If you have a dataset with n observations and mean m. What will be the new mean you add 5 to each data point?	an if
\bigcirc m	
● m+5	
5	
None of the above	

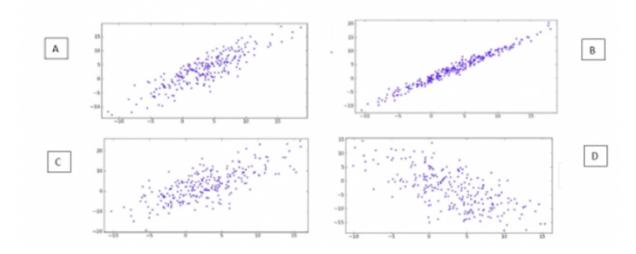


r=-1 I can't know

19. *	2 points	
IQ is distributed with a mean of 100 and a variance of 225. What is the standard for IQ of 130.?	score	
2		
0.13		
O 30		
O 15		
20. *	1 point	
If the variance of a dataset is 50 and all data points are increased by 100% then what will be the variance?		
O 50		
O 100		
200		
O 25		

21. * 2 points

Rank the below correlation coefficient from lowest to highest coefficient.



- B > A > C > D
- B > C > D > A
- B > C > A > D

22. * 1 point

Two sets of data consisting of 10 and 20 observations have the same mean eight with standard deviations of 1 and 2 respectively. If the two data sets are combined, then what is the variance?

-	-	
		5
	- //	_





23. * 2 points

For any Normal Distribution, the mean is equal to the median equal to the Mode ALWAYS?



False

12/16/2020 Statistics Exercises

24. The 2nd Quartile of a standard normal distribution is equal to? *	2 points
O 1	
0	
O 2	
O I can't tell	

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