

Quiz 3 Review—Data Display

Name: _____

Vocabulary—Use your notes to find the exact answer that fits each blank.

1. The main difference between a bar graph and a histogram is that a histogram deals with _____ data whereas a bar graph deals with _____ data.
2. In a stem plot, the ones place digit is called the _____.
3. A dot plot displays _____ variables.
4. The class width can be found by subtracting the _____ from the _____ and dividing by the total number of _____.
5. A(n) _____ is a graphical display of categorical data using bars of different heights.
6. A _____ is a bar graph in which the bars are arranged from highest to lowest
7. A _____ represents data that occur over a specific period of time
8. A graph made by plotting ordered pairs in a coordinate plane to show the relationship between two sets of data is called a _____.
9. A correlation coefficient that falls between ± 1 and $\pm .8$ is considered _____.
10. Predicting within a range of given x-values is called _____.
11. _____ describes the direction and strength of any relationship.
12. A correlation coefficient that falls between $\pm .5$ and 0 is considered _____.
13. The correlation coefficient is denoted by _____.
14. A summary of a straight line relationship between two variables is called a _____ line.
15. A correlation coefficient that falls between $\pm .8$ and $\pm .5$ is considered _____.
16. Predicting outside a range of given x-values is called _____.

Work Problems

17. The following table shows the number of pets treated in one week at the local veterinarian clinic. Construct a **bar graph** to display this information. Be sure to label properly.

Pets Treated in One Week					
Dogs	Cats	Ferrets	Birds	Hamsters	Lizards
17	12	4	5	8	2

18. The ages of 22 students in a karate class are given below. Construct a **dot plot**.

11, 5, 9, 13, 8, 9, 9, 11, 10, 8, 6, 7, 12, 11, 13, 12, 7, 6, 11, 12, 10, 8

19. A survey of 350 local families asked the question, "Where are you planning to vacation this summer?" Construct a **Pareto Chart** from the following results.

Area	# Vacationing
Tennessee	32
New York	85
California	125
Florida	46
Hawaii	62

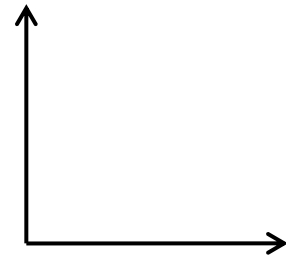
20. The number of record low temperatures for the past 6 months is summarized in the table below. Create a time series plot.

Months	Number of Record Low Temperatures
October	3
November	4
December	1
January	0
February	2
March	3

The table shows the weight of an alligator at various times during a feeding trial.

21. Make a scatterplot in your calculator of the table and sketch it below.

Weeks	0	9	18	27	34	43	49
Weight in pounds	6	8.6	10	13.6	15	17.2	19.8



22. Find the correlation coefficient, r . _____

23. Find the equation of the regression equation: _____

24. Predict the weight of an alligator at week 62. _____ An example of: *interpolation* or *extrapolation*

25. Predict the weight of an alligator at week 13. _____ An example of: *interpolation* or *extrapolation*

26. Predict the age of an alligator that weights 16 lbs. _____ An example of: *interpolation* or *extrapolation*

27. Predict the age of an alligator that weights 41 lbs. _____ An example of: *interpolation* or *extrapolation*

28. The daily temperatures of the month of February were recorded. Using the recorded temperatures, make a **stem-and-leaf plot**.

35	45	42	41	25
36	27	41	34	73
26	58	29	20	28
35	48	43	42	45
21	26	35	41	47
40	39	28	19	

29. The following is a list of prices of items sold at a garage sale. Construct a frequency distribution using 4 classes. Draw a **histogram**.

34	2	11	30	4	29	5	24	8	10	5	10
2	12	5	15	20	23	25	10	25	29	1	30
8	6	30	15	5	26	32	17				