

Name: \_\_\_\_\_

Period: \_\_\_\_\_

## Statistics HOMEWORK #3

DUE FRIDAY \_\_\_\_\_

**Homework will be assigned every Friday and will be due the following Friday. This gives you one full week (including a weekend) to complete the homework. There will be a short quiz on content covered in homework each Friday.** Please don't feel like you are alone in completing your homework. I am here and happy to help! The required sections of the homework should take you no more than 1.5 hours to complete. If it is taking longer, please come see me. **Challenge sections are optional.**

*Please record how long it took you to complete each section of the homework in the table below.*

Day of the Week	Required Problems	Optional Challenge	Completed?	Number of Minutes it took you to complete each section
Friday	#1-3	#4-5		
Monday	#6	#7		
Tuesday	#8-9	#10		
Wednesday	#11-13	#14		
Thursday	#15-22	None 😊		

***I can create and analyze stem and leaf plots.***

1). Create a stem and leaf plot of the following data:

27, 32, 8, 2, 15, 29, 43, 51, 10, 3, 34, 52

2). Create a stem and leaf plot of the following data:

31, 17, 0, 46, 58, 43, 13, 4, 6, 1, 23, 28, 33, 42, 2

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3). Using the data set from #2, find the mean, median, mode, and range

Mean: \_\_\_\_\_

Median: \_\_\_\_\_

Mode: \_\_\_\_\_

Range: \_\_\_\_\_

*CHALLENGE*

4). Create a stem and leaf plot for the following data:

0.9, 1.7, 1.2, 3.4, 2.8, 4.2, 0.9, 1.6, 2.4., 3.6

5). Using the data set from #2, find the mean, median, mode, and range

Mean: \_\_\_\_\_

Median: \_\_\_\_\_

Mode: \_\_\_\_\_

Range: \_\_\_\_\_

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6.)

Stem	Leaf
0	1 3 4 4 4 6
1	3 5
2	7 9
3	0 3 3 6 7
4	1 3 5 6 8

A.) List all the data from least to greatest.

B.) Find the mean of the data set.

C.) Find the mode of the data set.

D.) Find the median of the data set.

E.) Find the range of the data set.

*CHALLENGE*

7.)

Stem	Leaf
11	0 1 2 3 4 4
12	7 8 9
13	3 3
14	
15	0 1 5 6

A.) List all the data from least to greatest.

B.) Find the mean of the data set.

C.) Find the mode of the data set.

D.) Find the median of the data set.

E.) Find the range of the data set.

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*I can create and analyze frequency tables and histograms.*

8.) The data below shows the number of polar bears in different zoos around the world. Record the data in a frequency.

2    4    5    8    8    1    0    2    8    9    12    15    11    10    8  
19   10   13   11   8    7    4    2    13   17   16    0    2    1    12

Number of Polar Bears	Tally	Frequency

9.) The following data represents the test scores of a recent quiz in Ms. Strong's class.

76   78   81   84   90   99   100   75   64   86   84   81   80   92   96  
95   90   99   100   100   57   64   70   71   79   87   99   94   94   92  
75   79   98

Display the data in a frequency table.

Test Scores	Tally	Frequency

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10.) The following data represents the different speeds that Ms. Wilson drove her car on the way to work this morning. Display the data in a frequency table.

87	65	32	10	0	89	95	101	64	32	45	76	59	83	41
90	11	15	0	5	25	27	38	35	42	60	73	81	40	37

*CHALLENGE:*

11.) Make a histogram to represent Ms. Wilson's speeds.

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12.) Make a histogram of the following data:

12, 0, 22, 31, 14, 7, 7, 45, 31, 28, 21, 25, 25, 18

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13.) What do you observe about the data in your histogram?

**CHALLENGE:**

14.) Make a histogram of the following data:

0.3, 0.5, 0.9, 1.0, 0.3, 0.5, 1.5, 1.2, 0.7, 0.3, 0.2, 1.2, 0.8, 0.5, 1.4

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**Recall**

15.)  $\frac{4}{7} \div \frac{3}{8}$

16.)  $\frac{2}{7} \times \frac{5}{2}$

17.)  $5x + 14 = 54$

18.)  $-8 + 9 - 15$

19.)  $(9) \div 3 + 7 \times 2 - 18$

20.)  $6w - 27 = 54$

21.)  $3\frac{2}{9} + 6\frac{5}{9}$

22.)  $8 + 17 - 3 \times 6 - (8 + 1)$