

Name: _____

Unit 9: Probability & Statistics



Date: _____ Per: _____

Homework 7: Measures of Central Tendency

**** This is a 2-page document! ****

Find the mean, median, mode(s), and range of each data set. Round to the nearest tenth if necessary.

1. Annual inches of rainfall in the last 5 years: {29.3, 31.7, 46.3, 32.4, 48.9}

2. The number of games a baseball team has won in each of the last ten seasons: {89, 81, 96, 85, 93, 70, 66, 64, 68, 70}

Mean	Median	Mode(s)	Range
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Mean	Median	Mode(s)	Range
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3. The speed of 15 cars on the highway: {72, 80, 68, 65, 62, 72, 70, 79, 66, 62, 72, 68, 63, 70, 68}

4. The total number of medals won by the United States in the following summer Olympics:

Year	Medals
1996	101
2000	93
2004	101
2008	110
2012	103
2016	121

Mean	Median	Mode(s)	Range
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Mean	Median	Mode(s)	Range
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5. The value of a home (in thousands) in the last 10 years: {213, 228, 246, 274, 297, 305, 313, 292, 270, 272}

6. The average high temperature each month for the last year: {31, 36, 42, 55, 67, 75, 80, 78, 71, 59, 48, 36}

Mean	Median	Mode(s)	Range
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Mean	Median	Mode(s)	Range
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~~7. Rick's scores in his last 15 rounds of golf are 72, 80, 75, 84, 78, 72, 75, 68, 81, 74, 79, 70, 77, 85, and 72. If he scores an 80 on each of the next three rounds, which measure of center would increase more, the mean or median? Justify your answer.~~

8. Jordan and Ben exercise at the same gym. The table below shows the number of calories they burned in each of their last five workouts. How many calories would Ben need to burn in his next workout to have the same average as Jordan?

Jordan	850	674	729	658	614
Ben	716	635	802	687	630

9. The average price of a gallon of gas from 2011-2014 is shown in the table below. In 2015, the average price of a gallon dropped 28% from 2014. Find the 5-year average from 2011-2015.

Year	2011	2012	2013	2014
\$ per gal	\$3.75	\$3.80	\$3.62	\$3.40

Directions:

10. The number of students in each 8th grade math class at Oakville Middle School: {27, 30, 30, 32, 25, 30, 30, 30, 28, 30, 21, 30}

Mean
Median
Mode

11. The square footage of 8 homes in a new neighborhood: {2980, 2816, 2648, 2305, 2766, 3072, 2832, 3476}

Mean
Median
Mode

12. SAT test scores of a group of students: {1250, 1490, 720, 1180, 1350, 1090, 1380, 1270, 1560, 1320}

Mean
Median
Mode