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NAME		DATE
CENTRAL TENDENCY: Worksheet 3		
Find the mean, median and mode for the following data.		
1) 5, 8, 5, 4, 3, 8, 5, 10, 2, 3		
2) 8, 9, 7, 8		
3) 1, 1, 1, 3, 4, 2, 1, 3, 2		
4) 18, 21, 25, 14, 18, 19, 25		
5) Samantha has taken 4 quizzes. Her scores were 20, 18, 15 What is the lowest score she can have to have a 17 mean as		antha must take one more quiz.
6) There were 5 homes that sold in St. Joe County last week. They sold for: \$76,000 \$81,000 \$88,500	\$68,500	\$81,000
What were the mean, median and mode for these prices?	φυο,υυ	φο1,000

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KEY

CENTRAL TENDENCY: Worksheet 3

Find the mean, median and mode for the following data.

1) 5, 8, 5, 4, 3, 8, 5, 10, 2, 3

Mean:
$$(5+8+5+4+3+8+5+10+2+3) \div 10 = 53 \div 10 = 5.3$$

Median: List from small to large. 2,3,3,4,5,5,5,8,8,10. Middle score is the median: 5

Mode: Appears the most number of times: 5

2) 8, 9, 7, 8

Mean:
$$(8 + 9 + 7 + 8) \div 4 = 32 \div 4 = 8$$

Median: List from small to large. 7,8,8,9. Middle score is the median: 8

Mode: Appears the most number of times: 8 (This is an unusual example where the mean,

median & mode are all the same.)

3) 1, 1, 1, 3, 4, 2, 1, 3, 2

Mean:
$$(1+1+1+3+4+2+1+3+2) \div 9 = 18 \div 9 = 2$$

Median: List from small to large. 1,1,1,1,2,2,3,3,4. Middle score is the median: 2

Mode: Appears the most number of times: 1

4) 18, 21, 25, 14, 18, 19, 25

Mean:
$$(18 + 21 + 25 + 14 + 18 + 19 + 25) \div 7 = 140 \div 7 = 20$$

Median: List from small to large. 14,18,18,19,21,25,25. Middle score is the median: 19

Mode: Appears the most number of times: Two modes: 18 & 25

5) Samantha has taken 4 quizzes. Her scores were 20, 18, 15 and 17. Samantha must take one more test. What is the lowest score she can have to have an 17 mean average?

$$\frac{20+18+15+17+x}{5} = 17$$
 \longrightarrow $\frac{70+x}{5} = 17$ Multiply by 5. Subtract 70. $x = 17$

6) There were 5 homes that sold in St. Joe County last week.

They sold for: \$76,000 \$81,000 \$88,500 \$68,500 \$81,000

What were the mean, median and mode for these prices?

Mean: $(76000 + 81000 + 88500 + 68500 + 81000) \div 5 = 395,000 \div 5 = $79,000$

Median: List from small to large. 68500, 76000, 81000, 81000, 85500.

Middle score is the median: \$81,000

Mode: Appears the most number of times: \$81,000