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CENTRAL TENDENCY: Worksheet 1

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

1) 15, 22, 29, 17, 22

2) 3, 8, 5, 3, 3, 4, 9, 4, 8, 5

3) 88, 104, 100, 90

4) 68, 66, 68, 80, 72, 71, 58

5) Jill bowled 3 games. Her mean average was 126. Her scores for the first 2 games were 106 and 130. What was the score of her 3rd game?

6) There were 6 homes that sold in St. Joe County last week.
    They sold for: $86,000 $72,000 $136,500 $102,000 $72,000 $164,500
    What were the mean, median and mode for these prices?

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KEY
CENTRAL TENDENCY: Worksheet 1

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

1) 15, 22, 29, 17, 22

Mean: $(15 + 22 + 29 + 17 + 22) \div 5 = 105 \div 5 = $ **21**
Median: List from small to large. 15,17,**22**,22,29. Middle score is the median: **22**
Mode: Appears the most number of times: **22**

2) 3, 8, 5, 3, 3, 4, 9, 4, 8, 5

Mean: $(3 + 8 + 5 + 3 + 3 + 4 + 9 + 4 + 8 + 5) \div 10 = 52 \div 10 = $ **5.2**
Median: List from small to large. 3,3,3,4,**4,5**,5,8,8,9. Median is between 4 & 5: **4.5**
Mode: Appears the most number of times: **3**

3) 88, 104, 100, 90

Mean: $(88 + 104 + 100 + 90) \div 4 = 382 \div 4 = $ **95.5**
Median: List from small to large. 88,**90,100**,104. Median is between 90 &100: **95**
Mode: Appears the most number of times: **There is no mode.**

4) 68, 66, 68, 80, 72, 71, 58

Mean: $(68 + 66 + 68 + 80 + 72 + 71 + 58) \div 7 = 483 \div 7 = $ **69**
Median: List from small to large. 58,66,68,**68**,71,72,80. Middle score is the median: **68**
Mode: Appears the most number of times: **68**

5) Jill bowled 3 games. Her mean average was 126. Her scores for the first 2 games were 106 and 130. What was the score of her 3rd game?

$$\frac{106 + 130 + x}{3} = 126 \implies \frac{236 + x}{3} = 126 \implies$$ Multiply by 3. Subtract 236.
$x = $ **142**

6) There were 6 homes that sold in St. Joe County last week.
They sold for: $86,000 $72,000 $136,500 $102,000 $72,000 $164,500
What were the mean, median and mode for these prices?

Mean: $(86000+72000+136500+102000+72000+164500) \div 6 = 633,000 \div 6 = $ **$105,500**
Median: List from small to large. 72000, 72000, **86000, 102000**, 136500, 164500.
    Median is between 86,000 & 102,000: **$94,000**
Mode: Appears the most number of times: **$72,000**