

**7.1 Mean, Median, & Mode
Homework**

Name: _____
Date: _____ Block: _____

Find the mean, median, and mode of the data represented in each stem and leaf plot

1.

Stem	Leaf
7	35
8	224
9	0479
10	58
11	46

Mean: $1219 \div 13 \approx 93.8$

Median: 94

Mode: 82

2.

Stem	Leaf
5	33
6	58
7	377
8	4889

Mean: $815 \div 11 \approx 74.1$

Median: 77

Mode: 53, 77, 88

3.

Stem	Leaf
9	35
10	258
11	5899
12	4789

Mean: $1482 \div 13 = 114$

Median: 118

Mode: 119

4. Olivia swims the 50-yard freestyle for the Mud Dogs swim team. Her times in the last 6 meets were ~~16.89~~ seconds, 26.27 seconds, ~~25.18~~ seconds, 25.63 seconds, ~~27.16~~ seconds, and ~~27.18~~ seconds. Find the mean and median of her swimming times.

Mean = $\frac{148.31}{6} \approx 24.72$ seconds

Median = $51.9/2 = 25.95$ seconds

5. Lauren wants to receive a 91% in Algebra. On the first 4 tests she received a 100, 82, 93, and 84. What score must she receive on the 5th test in order to have a mean score of 91%?

$X = 5^{\text{th}} \text{ score}$

$$\frac{X + 359}{5} = 91$$

$$X + 359 = 455$$

$$X = 96$$

96% on last test

6. In a basketball game between Kennedy High School and Lincoln High School, the Lincoln player's individual points were ~~23~~, ~~4~~, 6, ~~11~~, ~~4~~, 7, 8, ~~12~~, ~~3~~, and 5. Find the mean, median, and mode of the individual points. What is the best central tendency to describe the data?

Mean = $83/10 = 8.3$

Median = $6\frac{1}{2}$

Mode = 4

Median \rightarrow Mode lowest value
Mean skewed due to 23.