

Center and Spread

Date _____ Period _____

Find the median, mean, range, lower quartile, upper quartile, interquartile range, and mean absolute deviation for each data set. Round the mean absolute deviation to the nearest hundredth if necessary.

1)

Age at First Job

| | | | | | | |
|----|----|----|----|----|----|----|
| 12 | 13 | 13 | 15 | 15 | 15 | 15 |
| 16 | 16 | 17 | 18 | | | |

2)

Annual Precipitation (Inches)

| | | | | | | |
|----|----|----|----|----|----|----|
| 7 | 14 | 18 | 28 | 29 | 35 | 46 |
| 51 | 63 | 68 | 70 | | | |

3)

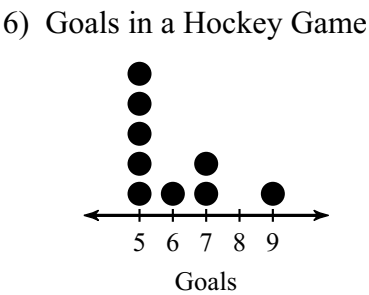
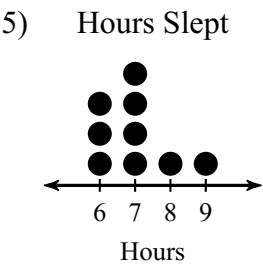
Minutes to Run 3 miles

| | | | | | | |
|----|----|----|----|----|----|----|
| 20 | 22 | 24 | 25 | 26 | 29 | 30 |
| 32 | 44 | | | | | |

4)

Mens Heights (Inches)

| | | | | | | |
|----|----|----|----|----|----|----|
| 63 | 67 | 67 | 70 | 71 | 71 | 73 |
| 74 | 74 | | | | | |



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1) Age at First Job

12 13 13 15 15 15 15
16 16 17 18

Median = 15, Mean = 15, Range = 6,
 $Q_1 = 13$, $Q_3 = 16$, IQR = 3 and
MAD = 1.27

2) Annual Precipitation (Inches)

7 14 18 28 29 35 46
51 63 68 70

Median = 35, Mean = 39, Range = 63,
 $Q_1 = 18$, $Q_3 = 63$, IQR = 45 and
MAD = 18.73

3) Minutes to Run 3 miles

20 22 24 25 26 29 30
32 44

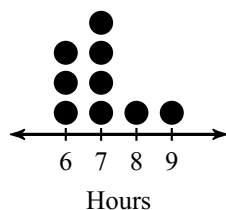
Median = 26, Mean = 28, Range = 24,
 $Q_1 = 23$, $Q_3 = 31$, IQR = 8 and
MAD = 5.11

4) Mens Heights (Inches)

63 67 67 70 71 71 73
74 74

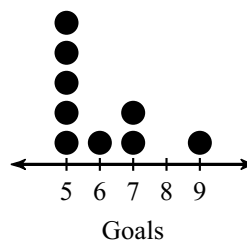
Median = 71, Mean = 70, Range = 11,
 $Q_1 = 67$, $Q_3 = 73.5$, IQR = 6.5 and
MAD = 2.89

5) Hours Slept



Median = 7, Mean = 7,
Range = 3, $Q_1 = 6$, $Q_3 = 7.5$,
IQR = 1.5 and MAD = 0.67

6) Goals in a Hockey Game



Median = 5, Mean = 6,
Range = 4, $Q_1 = 5$, $Q_3 = 7$,
IQR = 2 and MAD = 1.11