AUBURN SCHOOL DISTRICT
ENGAGE • EDUCATE • EMPOWER

Student Name_____
Date _____
Grade 6 Formative Solutions

6.SP.5.TJ.E3.E4
Summarize Distributions

1

Cannon surveyed his friends to see how many minutes spent lifting weights on Monday. The results are in this list.

12, 11, 22, 23, 18, 25, 11, 11, 22

Enter the **interquartile range** of the data. 11.5

2

Jax surveyed his friends to see how many hours they spent riding their bicycles during the month of April. The results are in this list.

2, 22, 18, 22, 4, 6, 13, 10, 11

Enter the **mean absolute deviation** of the data. 6

3

Consider this data.

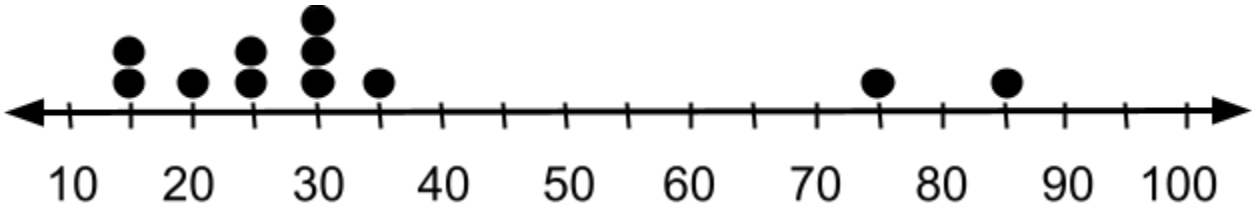
10, 11, 12, 9, 15, 9, 7, 4, 8.

Two extra numbers, 3 and 5, are added to the data set. Determine whether each statement is true once these extra numbers are added. Select True or False for each statement.

Statement	True	False
Adding the extra numbers will increase the mean.		x
Adding extra numbers will decrease the range.		x
Adding the extra numbers will **not** change the median.	x	

4

Ted surveyed his neighbors to see how much money they spend on gasoline each week. The results are in the dot plot shown.



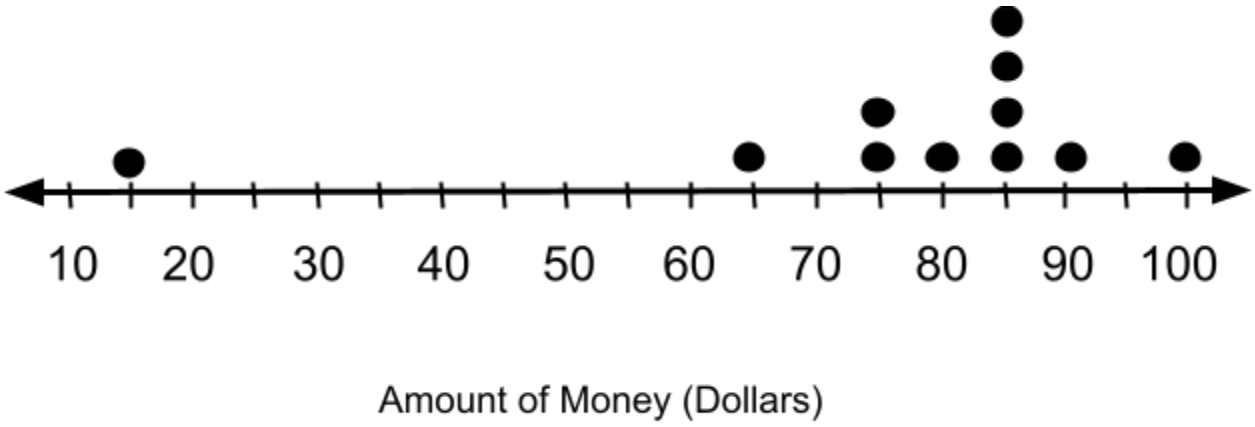
Amount of Money (Dollars)

Determine whether each statement about the dot plot of the data is true. Select True or False for each statement.

Statement	True	False
The dot plot is skewed right.	x	
The dot plot shows a uniform distribution.		x
The dot plot shows a cluster of data from 40 to 70.		x

5

Ted surveyed his neighbors to see how much money they spent on gasoline each week. The results are in the dot plot shown.



Select **ALL** the values that can be considered outliers for this data set or, if there are none, select "There are no outliers."

A. 15-correct
B. 65
C. 90
D. 100
E. There are no outliers.