Chapter 9	Statistical Measures	
Date:	9.2 Mean	
Essential Question	How can you find an average value of a data set?	
Vocab	Word	Definition
	mean	the average of a set of data Example: Data: 8, 5, 6, 9 Mean: $\frac{5+6+8+9}{4} = \frac{28}{4} = 7$

1) The table shows the number of text messages sent by a group of friends over 1 week. What is the mean number of messages sent?

Text Messages	
Mark	120
Laura	95
Stacy	101
Josh	125
Kevin	82
Maria	108
Manny	90

1) Find the total number of texts sent.

$120 + 95 + 101 + 125 + 82 + 108 + 90 =$

721

2) Divide the total number of texts by the number of people who sent texts.

$$\frac{721}{7} = 103$$

The mean number, or average number, of texts sent is 103.

Complete number 1 on your notes page.

1) How many quarters do people bring to a batting cage?

Step 1: Find the total number of quarters brought to the batting cage.

$6 + 8 + 8 + 12 + 8 + 12 + 8 + 4 + 8 + 6 + 6 + 10 + 7 + 10 + 7 + 8 = 128$

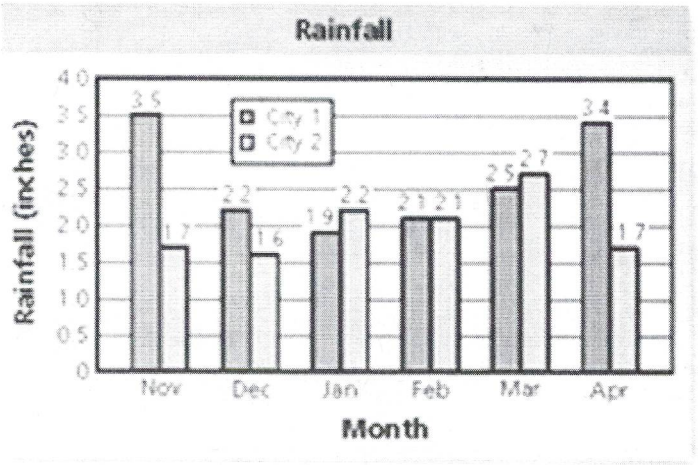
Step 2: Divide the total number of quarters by the number of people who brought quarters to the batting cage.

$$\frac{128}{16} = 8$$

The mean number, or average number, of quarters brought to the batting cage is 8.

Complete number 2 on your notes page.

2) The double bar graph shows monthly rainfall amounts for two cities over 6 month period. What is the average rainfall for each city?



City 1

$3.5 + 2.2 + 1.9 + 2.1 + 2.5 + 3.4 =$

15.6

$\frac{15.6}{6} = 2.6$

City 2

$1.7 + 1.6 + 2.2 + 2.1 + 2.7 + 1.7 =$

12

$\frac{12}{6} = 2$

Compare the mean monthly rainfalls.

City 1 had a higher monthly rainfall average than City 2.