NAME _____

Date _____   Period_____

✓ Vocabulary and Concept Check

1. **VOCABULARY** Arrange the words to explain how to find a mean.

| the data values | divide by | the number of data values | add | then |

2. **NUMBER SENSE** Is the mean always equal to a value in the data set? Explain.

3. **REASONING** Can you use the mean to answer a statistical question? Explain.

Find the mean of the data.

4. Ages in a class: 11, 12, 12, 12, 12, 12, 13
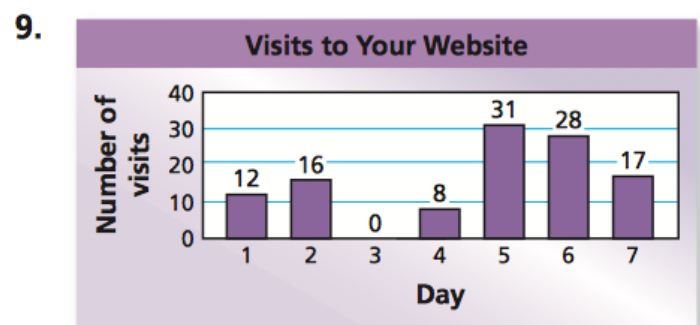
5. Movies seen this week: 0, 0, 0, 1, 1, 2, 3

6.

Pets Owned	
Brandon	I
Jill	III
Mark	II
Nicole	IIII
Steve	0

7.

Brothers and Sisters	
Amanda	♀
Eve	♀♀♀♀♀
Joseph	♀♀♀♀
Michael	♀♀

8.

Sit-ups		
108	85	94
103	112	115
98	119	126
105	82	89

9.

Visits to Your Website

Bar graph — Number of visits vs Day:
Day 1: 12, Day 2: 16, Day 3: 0, Day 4: 8, Day 5: 31, Day 6: 28, Day 7: 17

10. GOLF The table shows tournament finishes for a golfer.

Tournament Finishes							
1	1	2	1	1	12	6	2
15	37	1	2	1	26	9	1

 a. What was the golfer's mean finish?

 b. Identify two outliers for the data.

11. COMMERCIALS You and your friends are watching a television show. One of your friends asks, "How long are the commercial breaks during this show?"

Time (minutes)				
4.2	3.5	4.55	2.75	2.25

 a. Is this a statistical question? Explain.

 b. Use the mean of the values in the table to answer the question.

Month	Rainfall (inches)	Month	Rainfall (inches)
Jan	2.22	Jul	3.27
Feb	1.51	Aug	5.40
Mar	1.86	Sep	5.45
Apr	2.06	Oct	4.34
May	3.48	Nov	2.64
Jun	4.57	Dec	2.14

12. RAINFALL The table shows the monthly rainfall at a measuring station. What is the mean monthly rainfall?

14. CELL PHONE The bar graph shows your cell phone usage for five months.

 a. Which data value is an outlier? Explain.

 b. Find the mean with and without the outlier. Then describe how the outlier affects the mean.

Cell Phone Usage

445 516 618 575 288

May June July Aug Sept

Minutes / Month