NAME _____

CHAPTER 4 PRETEST

## Check What You Know

# Measures of Central Tendency and Measures of Variability

Find the mean, median, mode, and range of each set of data. Round to the nearest tenth.

| | a | b | c |
|---|---|---|---|
| 1. | 8, 9, 4, 2, 9 | 25, 17, 14, 29, 17, 24 | 6, 4, 0, 2, 5, 7, 1, 3 |
| | mean: 6,4 | mean: 21 | mean: 3,5 |
| | median: 8 | median: 20.5 | median: 3.5 |
| | mode: 9 | mode: 17 | mode: — |
| | range: 7 | range: 15 | range: 7 |

**2.** Dana scored 80, 86, 79, and 81 on her first 4 math quizzes. What score does she need on the fifth quiz to reach an average of 84?

**a.** Equation: $\frac{80+86+79+81+?}{5} = 84$ **b.** Dana needs a score of 94.

**3.** Kerry's Berries sold a mean of 24 quarts of blueberries per day. The store sold a total of 720 quarts during the sample period. How many days are in the sample?

**a.** Equation: $\frac{720}{N} = 24$ **b.** The sample has 30 days.

The stem-and-leaf plot represents a set of data. Use the plot to answer the questions.

| Stem | Leaves |
|---|---|
| 2 | 1 4 |
| 3 | 2 5 7 |
| 4 | 1 3 4 9 |
| 5 | 6 6 8 |
| 6 | 1 1 1 |

Key: 2 | 4 = 24

**4.** Which numbers in the set are in the 30–39 interval? 32, 35, 37

**5.** What is the mode of the set? 61

**6.** What is the median of the set? 44

**7.** What is the lowest number in the set? 21

**8.** What is the range of the set? 40