LESSON 16-4
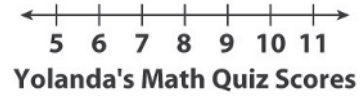
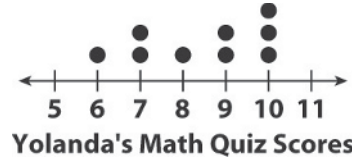# Dot Plots and Data Distribution
Reteach

A **dot plot** gives you a visual display of how data are distributed.

Example: Here are the scores Yolanda received on math quizzes: 6, 10, 9, 9, 10, 8, 7, 7, and 10. Make a dot plot for Yolanda's quiz scores.

Step 1: Draw a number line.

Step 2: Write the title below the number line.

Step 3: For each number in the data set, put a dot above that number on the number line.

Describe the dot plot by identifying the **range,** the **mean,** and the **median.**

Step 4: Identify the range. $10 - 6 = 4$

Step 5: Find the mean. $76 \div 9 = 8.4$

Step 6: Find the median. 9

Range: Greatest value − least value

Mean: $\dfrac{\text{Sum of data values}}{\text{Number of data values}}$

Median: Middle value

Use the data set at the right to complete Exercises 1–4.

1. Draw a dot plot for the data.

Game Scores			
12	6	15	10
14	15	8	10
12	21	15	8

2. Find the range. _____

3. Find the mean. _____

4. Find the median. _____