

**Lesson 7.7** Using Measures of Center

**Measures of center** can be used to describe a data set. Each measure of center allows for different observations about the set.

The **mean** is the most popular measure of center. It is the average, so it provides the clearest picture of the center of the data, but only if there are no outliers (values that are far away from the majority of the numbers in the set).

The **median** is the most useful measure when the data set contains outliers.

The **mode** is the most useful measure when the values in the data set are non-numerical.

Tell which measure of center would be best for describing each data set.

- | a  | b   |
|--|---|
| 1. 3, 4, 5, 5, 7, 6, 21<br><u>MEDIAN</u>                       | 62, 65, 72, 68, 66<br>_____                           |
| 2. 54, 72, 85, 67, 93, 85, 61, 89<br><u>MEAN</u>               | red, blue, green, red, blue, yellow, blue<br>_____    |
| 3. \$14.60, \$7.25, \$15.70, \$15.25, \$14.90<br><u>MEDIAN</u> | 8, 25, 19, 19, 25, 9, 9, 18, 25, 9, 8, 7, 10<br>_____ |
| 4. 0, 1, 3, 5, 5, 5, 7, 9, 9, 11, 15, 99<br><u>MEDIAN</u>      | A, B, C, A, B, C, D, A, B, B<br>_____                 |

**Lesson 7.7****Using Measures of Center**

Find the measures of center for each data set and decide which would be best to describe the data set.

**a**

1. Cesar's Test Scores: 84, 80, 78, 90, 76, 88, 86, 80, 94

Which is the best measure of center? MEAN**b**mean: 84median: 84mode: 80

2. Basketball Team Scores: 78, 77, 81, 84, 67, 78, 75, 42

Which is the best measure of center? \_\_\_\_\_

mean: \_\_\_\_\_

median: \_\_\_\_\_

mode: \_\_\_\_\_

3. Daily Theater Attendance: 124, 127, 111, 119, 107, 99, 115

Which is the best measure of center? \_\_\_\_\_

mean: \_\_\_\_\_

median: \_\_\_\_\_

mode: \_\_\_\_\_

4. Marisa's Daily Tips: \$15, \$21, \$18, \$13, \$52, \$21, \$25

Which is the best measure of center? MEDIANmean: \$23.57median: \$21mode: \$21