$\qquad$
$\qquad$

LESSON
10.2

## Practice A

For use with the lesson "Use Measures of Central Tendency and Dispersion"

## Evaluate the expression.

1. $\frac{4+14+8+3+6}{5}$
2. $\frac{|6-4|+|5-4|+|9-4|+|2-4|}{4}$

## Complete the statement.

3. The ? of a numerical set of data is the difference of the greatest value and the least value.
4. The ? of a numerical set of data is the middle number when the numbers are written in numerical order.
5. The _? of a numerical set of data is the value that occurs most frequently.

## Find the mean, median, and mode(s) of the data.

6. $5,3,2,6,5,2,5$
7. $24,12,10,15,10,22,12$
8. $14,9,20,5,17,13$
9. $21,15,16,25,13,18$
10. $20,17,10,31,25,18,12$
11. $48,40,53,43,52,46$

Find the range and mean absolute deviation of the data. Round to the nearest hundredth, if necessary.
12. $9,15,28,10,8$
13. $32,33,22,85,58$
14. $24,35,18,20,17,30$
15. $116,130,120,125,140,125$
16. $105,98,95,100,95,107$
17. $36,39,58,42,106,39,48,45$
18. Tomato Plants The heights (in inches) of eight tomato plants are $36,45,52,40,38$, 41,50 , and 48.
a. What is the range of the tomato plant heights?
b. Find the mean, median, and mode(s) of the tomato plant heights.
c. Which measure of central tendency best represents the data? Explain.
19. World Population The populations (in millions) in 2000 on each of the six inhabited continents were $803,487,348,3686,730$, and 31 .
a. What is the range of the populations?
b. Find the mean, median, and mode(s) of the populations. Round your answers to the nearest tenth.
c. Which measure of central tendency best represents the data? Explain.
20. Quiz Scores You and your friend have a friendly competition going on about the scores on your math quizzes. Both of your scores for the first five quizzes are given below. Compare the spreads of the data sets by using (a) the range and (b) the mean absolute deviation.
Your quiz scores: $18,16,19,15,17 \quad$ Friend's quiz scores: 20, 20, 13, 12, 17

