## SKILL PRACTICE

EXAMPLE 1 on p. 744
for Exs. 3-10

1. VOCABULARY Copy and complete: Measures of ? represent the center or middle of a data set. Measures of ? tell you how spread out the values in a data set are.
2. WRITING Define the mean, median, and mode of a set of $n$ numbers.

MEASURES OF CENTRAL TENDENCY In Exercises 3-6, find the mean, median, and mode of the data set.
3. The numbers of mice born in nine different litters: $5,7,6,3,8,6,4,5,4$
4. A student's quiz scores for the first semester of an algebra class:
$18,20,14,15,20,17,16$
5. The heights (in inches) of the members of a men's college basketball team: $69,70,75,84,73,78,74,73,78,71$
6. The waiting times (in minutes) of several people at a doctor's office:
$24,19,30,39,22,19,26,35,42,15,25$
7. TAKS REASONing What is the median of $0.5,0.6,0.7,1.2,1.5$, and 1.5 ?
(A) 0.7
(B) 0.95
(C) 1
(D) 1.5
8. taks reasoning What is the mean of $2,2,6,7,9$, and 10 ?
(A) 2
(B) 6
(C) 6.5
(D) 7.2

ERROR ANALYSIS Describe and correct the error in finding the measure of central tendency.

## EXAMPLES

2 and 3
on p. 745
for Exs. 11-16

## 9.

The median of the data set below is 5 because 5 is the middle number.
$12,8,9,5,10,10,3$
10.

The only mode of the data set below is 12 because 12 occurs most frequently.
$12,9,24,12,18,9,12,11,9$

MEASURES OF DISPERSION Find the range and standard deviation of the data set.
11. $7,4,6,8,5,9,5,7$
12. $10,12,7,11,20,7,6,8,9$
13. $3.1,2.7,6.0,5.6,2.3,2.0,1.3$
14. $44,47,45,48,45,47,50,44,48,42$
(15.) $135,142,148,136,152,140,158,154$
16. $301,312,308,320,318,315,325,336$

EXAMPLE 4
IDENTIFYING OUTLIERS Identify the outlier in the data set. Then find the mean, on p. 746 for Exs. 17-22
included and when it is not.
17. $2,2,3,3,4,4,4,6,68$
18. $0,72,75,75,83,83,83,91$
19. $10.9,12.4,0.7,11.6,12.8,11.6$
20. $28,20,25,28,100,25,20$
21. $60,68,75,78,152,71,66,72,66,80$
22. $184,192,173,181,199,65,190,188$

