### 1.3 EXERCISES

## SKILL PRACTICE

1. VOCABULARY Copy and complete: $\mathrm{A}(\mathrm{n})$ ? is a fraction that compares two quantities measured in different units.
2. WRITING Explain how to write $\frac{20 \text { miles }}{4 \text { hours }}$ as a unit rate.

EXAMPLE 1
on p. 15
for Exs. 3-14

## EXAMPLES

2 and 3
on p. 16
for Exs. 15-21

EXAMPLE 4
on p. 17
for Exs. 18-23

TRANSLATING PHRASES Translate the verbal phrase into an expression.
3. 8 more than a number $x$
5. $\frac{1}{2}$ of a number $m$
7. The difference of 7 and a number $n$
9. The quotient of twice a number $t$ and 12
(11.) 7 less than twice a number $k$
4. The product of 6 and a number $y$
6. 50 divided by a number $h$
8. The sum of 15 and a number $x$
10. 3 less than the square of a number $p$
12. 5 more than 3 times a number $w$
13. TAKS REASONING Which expression represents the phrase "the product of 15 and the quantity 12 more than a number $x$ "?
(A) $15+12 \times x$
(B) $(15+12) x$
(C) $15(x+12)$
(D) $15 \times 12+x$
14. TAKS REASONING Which expression represents the phrase "twice the quotient of 50 and the sum of a number $y$ and 8 "?
(A) $\frac{2 \cdot 50}{y}+8$
(B) $2\left(\frac{50+y}{8}\right)$
(C) $2\left(\frac{50}{y+8}\right)$
(D) $\frac{2}{50}+(y+8)$

## WRIITING EXPRESSIONS Write an expression for the situation.

15. Number of tokens needed for $v$ video games if each game takes 4 tokens
16. Number of pages of a 5 page article left to read if you've read $p$ pages
17. Each person's share if $p$ people share 16 slices of pizza equally
18. Amount you spend if you buy a shirt for $\$ 20$ and jeans for $j$ dollars
19. Number of days left in the week if $d$ days have passed so far
20. Number of hours in $m$ minutes
21. Number of months in $y$ years

UNIT RATES Find the unit rate.
22. $\frac{32 \text { students }}{4 \text { groups }}$
23. $\frac{4.5 \text { pints }}{3 \text { servings }}$
24. $\frac{12 \text { runs }}{5 \text { innings }}$
25. $\frac{\$ 136}{20 \text { shares }}$

ERROR ANALYSIS Describe and correct the error in the units.
26.

$$
\frac{\$ 2}{\text { foot }} \cdot 24 \text { feet }=\frac{\$ 48}{\mathrm{ft}^{2}}
$$

27. 

$$
9 \text { yards } \cdot \frac{3 \text { feet }}{1 \text { yard }} \cdot \frac{\$ 2}{\mathrm{foot}}=\frac{\$ 54}{\mathrm{ft}}
$$



