## Another Look!

When an expression contains more than one operation,

## Additional

Practice 13-1
Evaluate Expressions
parentheses ( ) can be used to show which operation
should be done first. Parentheses are one type of grouping symbol.
Do the operation inside the parentheses first.


Evaluate $2+(\underbrace{8 \times 3})$.


Brackets and braces are other types of grouping symbols.
Evaluate terms inside brackets after doing operations within parentheses.


In 1-12, evaluate the expression.
Use the order of

1. $(\underbrace{16+4}) \div 10$
2. $60 \div(\underbrace{3 \times 4}_{\downarrow})$
$20 \div 10=2$
$60 \div 12=5$
3. $(16 \div 4)+(10-3)$

11
5. $27-(7.5 \times 2)$

12
7. $(5+2) \times(14-9)-1$

34
8. $5+\{[2 \times(14-9)]-1\}$

14
9. $(52+48) \div(8+17)$

4
10. $[52+(48 \div 8)]+17$ 75
11. $(80+16) \div(4+12) 6$
4. $64 \div(10 \times 0.8)$ 8
6. $[(4 \times 6)+6] \div 6$

5
12. $80+16 \div 4+1296$
13. Keisha bought a new pair of skis for $\$ 450$. She made a payment of $\$ 120$ and got a student discount of $\$ 40$. Her mother paid $\frac{1}{2}$ of the remaining balance. How much does Keisha have left to pay? \$145
14. Be Precise Ellen is $5 \frac{1}{2}$ feet tall. Her sister is $\frac{3}{4}$ foot shorter than Ellen. How tall is Ellen's sister? $\frac{19}{4} \mathrm{ft}$ or $4 \frac{3}{4} \mathrm{ft}$
15. Higher Order Thinking Rewrite using parentheses to make each statement true.
a $42+12 \div 6=9$
$(42+12) \div 6=9$
b $33-14 \frac{1}{2}+3 \frac{1}{2}=15$

$$
33-\left(14 \frac{1}{2}+3 \frac{1}{2}\right)=5
$$

c $32 \div 8 \times 2=2$

$$
32 \div(8 \times 2)=2
$$

16. Algebra What steps would you use to solve the equation $n=7+(32 \div 16) \times 4-6$ ? Solve the equation.
$n=9$; Divide 32 by 16 , then multiply 2 by 4 . Next add 7, and then subtract 6.
17. Make Sense and Persevere Milton makes trail mix for his hiking group. He mixes $1 \frac{1}{4}$ pounds of peanuts, 14 ounces of raisins, 12 ounces of walnuts, and 10 ounces of chocolate chips. If Milton divides the trail mix equally among the 8 hikers in the group, how many ounces of trail mix does each hiker receive?
7 oz

## Assessment Practice

18. Which expression has a value of 11 ?
(A) 13-5-3
(B) $1+(8 \times 2)$
(C) $5+2 \times(4-1)$
(D) $15-1+(6 \div 2)$
19. Using the order of operations, which operation should you perform last to evaluate this expression?

$$
8+\{[14 \div 2 \times(3-1)]-1\}
$$

(A) Addition
(B) Division
(C) Multiplication
(D) Subtraction

