



*Simplify each expression.*

- \_\_\_\_\_ 8.  $(5 + x) + 10$   
a.  $x + 15$  c.  $x + 50$   
b.  $x + 5$  d.  $5x + 10$

- \_\_\_\_\_ 9.  $(8 \cdot b) \cdot 4$   
a.  $b + 32$  c.  $32b$   
b.  $12b$  d.  $8b + 4$

- \_\_\_\_\_ 10. Replace each  $\bigcirc$  with  $<$ ,  $>$ , or  $=$  to make a true sentence.

$-12 \bigcirc 19$

- a.  $=$   
b.  $>$   
c.  $<$

- \_\_\_\_\_ 11. Order the integers  $\{0, -20, 2, 15, -15\}$  from least to greatest.  
a.  $\{-15, -20, 0, 2, 15\}$  c.  $\{15, 2, 0, -15, -20\}$   
b.  $\{-20, -15, 0, 2, 15\}$  d.  $\{0, -15, -20, 2, 15\}$

- \_\_\_\_\_ 12. Evaluate the expression if  $x = 9$  and  $y = -20$ .

$|x| + |y|$

- a. 29 c. -29  
b. -11 d. 11

*Evaluate.*

- \_\_\_\_\_ 13.  $-20 + (-8)$   
a. 28 c. -12  
b. 12 d. -28

- \_\_\_\_\_ 14.  $24 + (-13)$   
a. -11 c. 11  
b. 37 d. -37

*Evaluate.*

- \_\_\_\_\_ 15.  $-35 - 9$   
a. 26 c. -26  
b. -44 d. 44

*Evaluate.*

- \_\_\_\_\_ 16.  $10 \cdot (-14)$   
a. 24 c. -4  
b. -140 d. 140

*Evaluate.*

- \_\_\_\_\_ 17.  $-24 \div (-4)$   
a.  $-6$  c.  $96$   
b.  $-20$  d.  $6$

*Use the Distributive Property to write each expression as an equivalent algebraic expression.*

- \_\_\_\_\_ 18.  $7(x+6)$   
a.  $7x+6$  c.  $7x+13$   
b.  $7x+42$  d.  $7(6x)$

*Solve each equation. Check your solution.*

- \_\_\_\_\_ 19.  $x+27=-12$   
a.  $x=-324$  c.  $x=-\frac{4}{9}$   
b.  $x=15$  d.  $x=-39$

- \_\_\_\_\_ 20.  $4b=8$   
a.  $b=2$  c.  $b=32$   
b.  $b=4$  d.  $b=12$

- \_\_\_\_\_ 21.  $\frac{b}{4}=8$   
a.  $b=2$  c.  $b=12$   
b.  $b=4$  d.  $b=32$

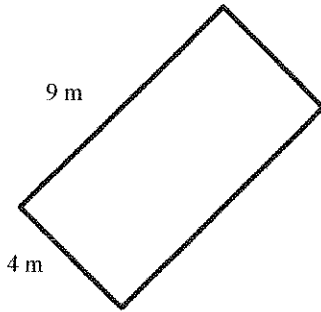
- \_\_\_\_\_ 22.  $\frac{x}{3}-12=-21$   
a.  $x=-3$  c.  $x=-7$   
b.  $x=-99$  d.  $x=-27$

*Translate the sentence into an equation. Then find the number.*

- \_\_\_\_\_ 23. Twenty-two more than seven times a number is one.  
a.  $-21$  c.  $-22$   
b.  $-3$  d.  $3$

*Find the perimeter of the rectangle.*

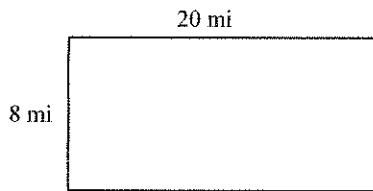
\_\_\_\_\_ 24.



- a. 22 m
- b. 13 m
- c. 26 m
- d. 36 m

*Find the area of the rectangle.*

\_\_\_\_\_ 25.



- a.  $56 \text{ mi}^2$
- b.  $160 \text{ mi}^2$
- c.  $28 \text{ mi}^2$
- d.  $320 \text{ mi}^2$