

LESSON

2.1

Name _____ Date _____

Practice

For use with pages 63-68

Evaluate the expression using mental math. Justify each of your steps.

1. $4(19)(-25)$ 2. $17 + 32 + 23$ 3. $6.8 + 9.7 + 2.2$

4. $3.06 + 5.37 + 4.94$
 C.P. $8 + 5.37$
 13.37

5. $10(-8)(-10)(4)$
 $-80 \cdot -40$
 3200

6. $-15(-9)(4)(5)$

Evaluate the expression when $a = 10$, $b = -4$, and $c = -2$.

7. a^2bc^2 8. $23 \cdot 5c^2$ 9. $3bc^2$

$3 \cdot (-4) \cdot (-2)^2$
 $3 \cdot (-4) \cdot 4 = -16 \cdot 3 = -48$

10. $a^2b \cdot 6$ 11. $9a^2 + 9b \cdot 25$ 12. $3b + 5a + (-6c)$

$10^2 \cdot (-4) \cdot 6$
 $100 \cdot -4 \cdot 6$
 $-400 \cdot 6 = -2400$

Simplify the expression.

13. $s + 7 + 96$ 14. $-33 + j + 14$ 15. $-21(3r)$

$s + 103$

16. $32r(-6)$ 17. $5.36 + p + 6.47$ 18. $-2.05x(3.01)$

$32 \cdot r \cdot (-6)$
 $-192r$

$p + 11.83$
 $11.83 + p$

$-6.1705x$

19. Identify the property illustrated by the statement $(14 \cdot 7) \cdot x = 14 \cdot (7 \cdot x)$.

Associative property

20. Identify the property illustrated by the statement $18^3 + 0 = 18^3$.

$$\begin{array}{r} 5.36 \\ + 6.47 \\ \hline 11.83 \end{array}$$

$$\begin{array}{r} 1 \\ 32 \\ \times 6 \\ \hline 192 \end{array}$$

LESSON **2.1** Practice
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Name _____ Date _____

$\begin{array}{r} 27 \\ \times 3 \\ \hline \end{array}$

Use a conversion factor to perform the indicated conversion.

21. 27 yards to feet

$$27 \text{ yards} \cdot \frac{3 \text{ feet}}{1 \text{ yard}} = 81 \text{ feet}$$

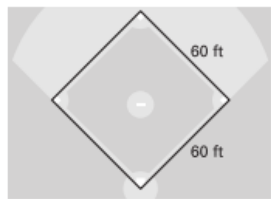
22. 160 kilometers to meters

23. 540 seconds to minutes

24. 112 ounces to pounds

$$112 \text{ oz} \cdot \frac{1 \text{ lb}}{16 \text{ oz}} = \frac{112 \text{ lb}}{16} = 7 \text{ lbs}$$

25. The area of the infield of a college softball field is 3600 square feet. Use a conversion factor to find the area of the infield of a college softball field in square yards.



26. During the summer, you work 5 hours a day as a lifeguard at a beach and earn \$8 each hour. Use properties of multiplication to find how much money you earn during a 6-day work week.

27. The cereal box at the right is 14 inches high, 6 inches long, and 2 inches wide. The formula for the volume of a box is $V = lwh$. Find the volume of the box in cubic inches.

