

2.2 Practice

For use with pages 71-75

Use the distributive property to evaluate the expression.

1. $15(7 + 20)$

$15 \cdot 7 + 15 \cdot 20$
 $105 + 300$

405

4. $(4 - 16)(-8)$
 $-8 \cdot 4 - 8 \cdot -16$
 $-32 + 128$

$+96$

2. $10(6.4 + 8.9)$

5. $(29 - 14)(-3)$

$-87 + 42$

-45

3. $-5(24 - 17)$

6. $12(11.3 + 7.8)$

$15 \times \frac{15}{105}$
 $4 \times 8 = 32$
 128
 $128 - 32 = 96$

$14 \times 3 = 42$
 $87 - 42 = 45$

Evaluate the expression using the distributive property and mental math.

7. $312(-4)$

$-4(300 + 12)$
 $-1200 + 48$
 -1152

8. $487(6)$

9. $17.98(3)$

10. $8(1 + 0.25)$

$8 + 2$

10

11. $-7(82)$

12. $191(-5)$

$-5(191)$
 $-5(200 - 9)$
 $-1000 + 45$
 -955

09910
 $\times 5$
 $- 45$
 955

Use the distributive property to write an equivalent variable expression.

13. $11(x + 9)$

$11 \cdot x + 11 \cdot 9$
 $11x + 99$

14. $-21(x - 7)$

15. $13(20 - a)$

$5 \times 17 = 85$
 136

16. $-8(17 + b)$

$-8 \cdot 17 + -8 \cdot b$
 $-136 + -8b$

17. $(r + 1.68)(-0.1)$

18. $3.25(5.02 - r)$

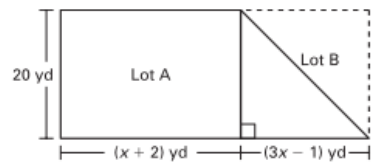
$16.315 - 3.25r$

$-136 - 8b$

LESSON **2.2** Practice
 Continued For use with pages 71-75

Name _____ Date _____

19. You and a friend go to a restaurant. You each order a salad, a cup of soup, and a drink. Each salad costs \$5.99, each cup of soup costs \$3.90, and each drink costs \$1.15. Use the distributive property to find the total cost of the meal.
20. There are several rectangular parcels of land for sale in a neighborhood. The Gonzalez family wants to purchase Lot A and half of the neighboring lot.
- Use the distributive property to find the area, in square yards, of Lot A.
 - Use the distributive property to find the area, in square yards, of half of Lot B.
 - Find the total area of the land the Gonzalez family wishes to purchase.



Find the area of the rectangle or triangle.

