Name _____ Date _____

LESSON 2.4

Practice C

For use with pages 87–93

Find the product.

1. $-15(4.3)$
2. $-7.6(2.5)$
3. $-3.1(-11.4)$
4. $-6.25(9.1)$
5. $\frac{5}{11}(-66)$
6. $-\frac{8}{9}(-72)$
7. $-9(-3)(-2.4)$
8. $4.2(-3)(-5.1)$
9. $\frac{2}{3}(-15)\left(-\frac{3}{4}\right)$
10. $\frac{5}{6}(-25)\left(\frac{3}{5}\right)$
11. $14\left(-\frac{3}{5}\right)\left(-\frac{5}{7}\right)$
12. $-\frac{5}{6}\left(-\frac{2}{5}\right)\left(-\frac{9}{4}\right)$

Identify the property illustrated.

13. $-1 \cdot (xy) = -xy$
14. $(-10 \cdot 13) \cdot 2 = -10 \cdot (13 \cdot 2)$
15. $\left(\frac{3}{5} \cdot 4\right)(5) = \left(4 \cdot \frac{3}{5}\right)(5)$

Find the product. Justify your steps.

16. $-5.5(0)(2.6)$
17. $-7x(3.5)(2x)$
18. $-\frac{3}{4}x\left(\frac{2}{3}\right)(-5)$

Evaluate the expression when $x = -2.5$ and $y = 1.2$.

19. $3x + y$
20. $y - 5x$
21. $xy - 10.8$
22. $21.3 - xy$
23. $4x + 3y$
24. $2.3y - |-x|$

25. **Lake Eyre** The lowest point in Australia is Lake Eyre. Its elevation is -12 meters. What is this elevation in feet? *Hint:* Use the fact that 1 meter $\approx$ 3.281 feet.

26. **Rock Climbing Wall** You are descending from the top of a 32-foot tall rock climbing wall at an average rate of -2.3 feet per minute. How many feet off the floor are you in 5 minutes? How many feet off the floor are you in 10 minutes? Approximately when will you reach the ground? *Explain* your reasoning.

27. **Rain Water** Some people conserve water by collecting rain water in barrels and using this water to water their vegetable gardens. A full 55-gallon water barrel gets a small leak and is losing water at an average rate of -0.03 gallon per hour. If it doesn't rain for 5 days, how much water is in the barrel after this time?

28. **City Population** In 2002, the population of the Buffalo, New York area was 1163 thousand people. From 2000 to 2002, the average rate of change in population was about -6.3 thousand people per year. From 1990 to 2000, the average rate of change in population was about -3.5 thousand people per year. Find the population in 1990.