



Find the product. *Justify* your steps.

32. $-4(-y)(-7)$	33. $-\frac{1}{3}x \cdot (-18)$	34. 2.5(-4z)(-2)
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35. SWIMMING POOLS The water level of a swimming pool is 3.3 feet and changes at an average rate of -0.14 feet per day due to water evaporation. What will the water level of the pool be after 4 days?

2.5 Apply the Distributive Property

EXAMPLE

Use the distributive property to write an equivalent expression.

a.
$$5(x + 3) = 5(x) + 5(3)$$

 $= 5x + 15$
b. $(7 - y)(-2y) = 7(-2y) - y(-2y)$
 $= -14y + 2y^2$
Distribute -2y.
Simplify.

EXERCISES

Use the distributive property to write an equivalent expression.

•	36. 8(5 – <i>x</i>)	37. $-3(y+9)$	38. $(z-4)(-z)$
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for Exs. 36–42 Simplify the expression.

EXAMPLES 1, 2, 4, and 5 on pp. 96–98

39. 3(x-2) + 14 **40.** 9.1 - 4(m+3.2) **41.** $5n + \frac{1}{2}(8n-7)$

42. PARTY COSTS You are buying 10 pizzas for a party. Cheese pizzas cost \$11 each, and single topping pizzas cost \$13 each. Write an equation that gives the total cost *C* (in dollars) as a function of the number *p* of cheese pizzas that you buy. Then find the total cost if you buy 4 cheese pizzas.

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pp. 96–98