Name ₋		Core		Date	
-------------------	--	------	--	------	--

3.4 Exercises





Vocabulary and Concept Check

WHICH ONE DOESN'T BELONG? Which expression does not belong with the other three? Explain your reasoning.

$$2(x + 2)$$

$$5(x - 8)$$

$$4 + (x \cdot 4)$$

$$8(9-x)$$

4. Identify the like terms in the expression 8x + 1 + 7x + 4.

Use the Distributive Property to simplify the expression.

22.
$$9(2n+1)$$

24.
$$18(5-3w)$$

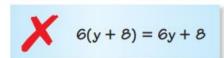
26.
$$7(8 + x + 2)$$

28.
$$6(10 + z + 3)$$

30.
$$25(x-y)$$

30.
$$25(x-y)$$
 32. $13(n+4+7m)$

33. ERROR ANALYSIS Describe and correct the error in rewriting the expression.



TURN OVER →

34. ART MUSEUM A class of 30 students visits an art museum and a special exhibit while there.



 Use the Distributive Property to write and simplify an expression for the cost.

b. Estimate a reasonable value for *x*. Explain.

c. Use your estimate for *x* to evaluate the original expression and the simplified expression in part (a). Are the values the same?

Simplify the expression.

42.
$$x + 3 + 5x$$

42.
$$x + 3 + 5x$$
 46. $n + 3(n - 1)$

48.
$$5(z+4)+5(2-z)$$

54. ERROR ANALYSIS Describe and correct the error in simplifying the expression.

$$8x - 2x + 5x = 8x - 7x$$
$$= (8 - 7)x$$
$$= x$$

58.	 REASONING Simplify the expressions and compare. What do you not Explain. 			
	4(x+6)	(x+6) + (x+6) + (x+6) + (x+6)		