

Reteaching 2-3 Simplifying Variable Expressions

Simplify $5n + (-n - 4)(-2)$.

$$5n + (-n - 4)(-2)$$

$$= 5n + (-n)(-2) - 4(-2)$$

$$= 5n + 2n + 8$$

$$= (5 + 2)n + 8$$

$$= 7n + 8$$

Use the distributive property.

Multiply. Think of $-4(-2)$ as $+(-4)(-2)$.

Use distributive property to combine like terms.

Add.

Complete each equation.

1. $9a - 7a + 5$

$$= (9 - 7) \underline{\hspace{2cm}} + 5$$

$$= \underline{\hspace{2cm}} a + 5$$

2. $5k - 4 - 8k$

$$= 5k - 8 \underline{\hspace{2cm}} - 4$$

$$= (5 - 8) \underline{\hspace{2cm}} - 4$$

$$= \underline{\hspace{2cm}} - 4$$

Simplify each expression.

3. $12a + 4 - 10a$

$$\underline{\hspace{2cm}}$$

5. $2(n - 4) + 3$

$$\underline{\hspace{2cm}}$$

7. $5(2y + 1) - 7y$

$$\underline{\hspace{2cm}}$$

9. $8c + 5(c - 3)$

$$\underline{\hspace{2cm}}$$

11. $q(-3) + 3(2 + q)$

$$\underline{\hspace{2cm}}$$

13. $(-3)(1 - 2n) + 2(n + 4)$

$$\underline{\hspace{2cm}}$$

4. $7 + x - 7x$

$$\underline{\hspace{2cm}}$$

6. $-3(a + 5) + 9$

$$\underline{\hspace{2cm}}$$

8. $2(4 - 3t) - (-3) + 2t$

$$\underline{\hspace{2cm}}$$

10. $-2(-4 - 3s)$

$$\underline{\hspace{2cm}}$$

12. $(3 + k)(-4) - 5k$

$$\underline{\hspace{2cm}}$$

14. $9p - 3(5p + 2) + 6$

$$\underline{\hspace{2cm}}$$