

Math Sheet

Name _____ Score _____ / 10 Teacher _____ Date _____

Simplifying Variable Expressions

Combine like terms and simplify each expression.

1. **Simplify:**
 $-6w + 6w$

2. **Simplify:**
 $9h - 3 + 4h$

3. **Simplify:**
 $7h + 3 - 5 + 9h$

4. **Simplify:**
 $-7(3 - 3m)$

5. **Simplify:**
 $-4(7 - 8q) - 8$

6. **Simplify:**
 $6w - 7w$

7. **Simplify:**
 $-2h - 4 - 7h$

8. **Simplify:**
 $3 - 8 + 4z + 3z$

9. **Simplify:**
 $2(-5 + 7p)$

10. **Simplify:**
 $5(-3 - 3d) + 3$

Simplifying Variable Expressions

Answer key

Combine like terms and simplify each expression.

1. **Simplify:**

$$-6w + 6w$$

$$-6w + 6w = 0$$

Combine like variable terms and constants.

2. **Simplify:**

$$9h - 3 + 4h$$

$$9h - 3 + 4h = 13h - 3$$

Combine like variable terms and constants.

3. **Simplify:**

$$7h + 3 - 5 + 9h$$

$$7h + 3 - 5 + 9h = 16h - 2$$

Combine like variable terms and constants.

4. **Simplify:**

$$-7(3 - 3m)$$

$$-7(3 - 3m) = -7 \times 3 + 7 \times 3m$$

Multiply the outside factor by every term.

$$-7 \times 3 + 7 \times 3m = 21m - 21$$

Combine like variable terms and constants.

5. **Simplify:**

$$-4(7 - 8q) - 8$$

$$-4(7 - 8q) - 8 = -4 \times 7 - 4 \times -8q - 8$$

Multiply the outside factor by every term.

$$-4 \times 7 - 4 \times -8q - 8 = 32q - 36$$

Combine like variable terms and constants.

6. **Simplify:**

$$6w - 7w$$

$$6w - 7w = -w$$

Combine like variable terms and constants.

7. **Simplify:**

$$-2h - 4 - 7h$$

$$-2h - 4 - 7h = -9h - 4$$

Combine like variable terms and constants.

8. **Simplify:**

$$3 - 8 + 4z + 3z$$

$$3 - 8 + 4z + 3z = 7z - 5$$

Combine like variable terms and constants.

9. **Simplify:**

$$2(-5 + 7p)$$

$$2(-5 + 7p) = 2 \times (-5) + 2 \times 7p$$

Multiply the outside factor by every term.

$$2 \times (-5) + 2 \times 7p = 14p - 10$$

Combine like variable terms and constants.

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Simplifying Variable Expressions

Answer key

Combine like terms and simplify each expression.

10. Simplify:

$$5(-3 - 3d) + 3$$

$$5(-3 - 3d) + 3 = 5 \times (-3) + 5 \times -3d + 3$$

Multiply the outside factor by every term.

$$5 \times (-3) + 5 \times -3d + 3 = -15d - 12$$

Combine like variable terms and constants.