

Math Sheet

Name _____ Score _____ / 10 Teacher _____ Date _____

Distributive Property Expressions

Distribute, then combine like terms.

1. Use the distributive property:

$$4(-7 - 7b)$$

2. Use the distributive property:

$$2(5 - 6x) - 5$$

3. Use the distributive property:

$$4(-6 - 4h)$$

4. Use the distributive property:

$$-2(7 + 7d) + 6d$$

5. Use the distributive property:

$$-3(5 - 3z)$$

6. Use the distributive property:

$$3(8 + 9h) - 9$$

7. Use the distributive property:

$$-7(8 - 7d)$$

8. Use the distributive property:

$$-2(4 - 6b) + 3$$

9. Use the distributive property:

$$7(-3 + 6s)$$

10. Use the distributive property:

$$-4(-7 + 8w) - 2$$

Distributive Property Expressions

Answer key

Distribute, then combine like terms.

1. Use the distributive property:

$$4(-7 - 7b)$$

$$4(-7 - 7b) = 4 \times (-7) + 4 \times -7b$$

Multiply the outside factor by every term.

$$4 \times (-7) + 4 \times -7b = -28b - 28$$

Combine like variable terms and constants.

2. Use the distributive property:

$$2(5 - 6x) - 5$$

$$2(5 - 6x) - 5 = 2 \times 5 + 2 \times -6x - 5$$

Multiply the outside factor by every term.

$$2 \times 5 + 2 \times -6x - 5 = -12x + 5$$

Combine like variable terms and constants.

3. Use the distributive property:

$$4(-6 - 4h)$$

$$4(-6 - 4h) = 4 \times (-6) + 4 \times -4h$$

Multiply the outside factor by every term.

$$4 \times (-6) + 4 \times -4h = -16h - 24$$

Combine like variable terms and constants.

4. Use the distributive property:

$$-2(7 + 7d) + 6d$$

$$-2(7 + 7d) + 6d = -2 \times 7 + 2 \times -7d + 6d$$

Multiply the outside factor by every term.

$$-2 \times 7 + 2 \times -7d + 6d = -8d - 14$$

Combine like variable terms and constants.

5. Use the distributive property:

$$-3(5 - 3z)$$

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

Multiply the outside factor by every term.

$$-3 \times 5 + 3 \times 3z = 9z - 15$$

Combine like variable terms and constants.

6. Use the distributive property:

$$3(8 + 9h) - 9$$

$$3(8 + 9h) - 9 = 3 \times 8 - 3 \times -9h - 9$$

Multiply the outside factor by every term.

$$3 \times 8 - 3 \times -9h - 9 = 27h + 15$$

Combine like variable terms and constants.

7. Use the distributive property:

$$-7(8 - 7d)$$

$$-7(8 - 7d) = -7 \times 8 - 7 \times -7d$$

Multiply the outside factor by every term.

$$-7 \times 8 - 7 \times -7d = 49d - 56$$

Combine like variable terms and constants.

Distributive Property Expressions

Answer key

Distribute, then combine like terms.

8. Use the distributive property:

$$-2(4 - 6b) + 3$$

$$-2(4 - 6b) + 3 = -2 \times 4 + 2 \times 6b + 3$$

Multiply the outside factor by every term.

$$-2 \times 4 + 2 \times 6b + 3 = 12b - 5$$

Combine like variable terms and constants.

9. Use the distributive property:

$$7(-3 + 6s)$$

$$7(-3 + 6s) = 7 \times (-3) - 7 \times -6s$$

Multiply the outside factor by every term.

$$7 \times (-3) - 7 \times -6s = 42s - 21$$

Combine like variable terms and constants.

10. Use the distributive property:

$$-4(-7 + 8w) - 2$$

$$-4(-7 + 8w) - 2 = -4 \times (-7) - 4 \times 8w - 2$$

Multiply the outside factor by every term.

$$-4 \times (-7) - 4 \times 8w - 2 = -32w + 26$$

Combine like variable terms and constants.