

Name \_\_\_\_\_



### Combining like terms

Simplify each expression by combining like terms.

$$\begin{aligned} 1. \quad & 5y + 2y - (-3y) \\ & = 5y + 2y + 3y \\ & = 10y \end{aligned}$$

$$2. \quad 7y + 2y$$

$$3. \quad 7x - 2x$$

$$4. \quad -5b + 2b$$

$$5. \quad -7y - 5y$$

$$6. \quad 10a - 3a$$

$$7. \quad -4w - 13w$$

$$8. \quad -9y + 15y$$

$$9. \quad 6h + h$$

$$10. \quad 7k - (-k)$$

$$11. \quad 3x + 4x - 2x$$

$$12. \quad 9y - 7y - 4y$$

$$13. \quad 5x^2 - 3x^2 - 7x^2$$

$$14. \quad 3m^3 + 7m^3 - 15m^3$$

$$15. \quad 3a + 5a$$

$$16. \quad -5y^2 - 13y^2 + 10y^2$$

$$17. \quad -5ab - 2ab + 9ab$$

$$18. \quad 9xy - (-2xy) - 4xy$$

$$19. \quad -5a^2 - 4a^2 + 3a^2 + 2a^2$$

$$20. \quad 15a^2b + 6a^2b - 12a^2b - 9a^2b$$

**Combining like terms**  
**answers**

Simplify each expression by combining like terms.

$$\begin{aligned} 1. \quad & 5y + 2y - (-3y) \\ & = 10y \end{aligned}$$

$$\begin{aligned} 2. \quad & 7y + 2y \\ & = 9y \end{aligned}$$

$$\begin{aligned} 3. \quad & 7x - 2x \\ & = 5x \end{aligned}$$

$$\begin{aligned} 4. \quad & -5b + 2b \\ & = -3b \end{aligned}$$

$$\begin{aligned} 5. \quad & -7y - 5y \\ & = -12y \end{aligned}$$

$$\begin{aligned} 6. \quad & 10a - 3a \\ & = 7a \end{aligned}$$

$$\begin{aligned} 7. \quad & -4w - 13w \\ & = -17w \end{aligned}$$

$$\begin{aligned} 8. \quad & -9y + 15y \\ & = 6y \end{aligned}$$

$$\begin{aligned} 9. \quad & 6h + h \\ & = 7h \end{aligned}$$

$$\begin{aligned} 10. \quad & 7k - (-k) \\ & = 8k \end{aligned}$$

$$\begin{aligned} 11. \quad & 3x + 4x - 2x \\ & = 5x \end{aligned}$$

$$\begin{aligned} 12. \quad & 9y - 7y - 4y \\ & = -2y \end{aligned}$$

$$\begin{aligned} 13. \quad & 5x^2 - 3x^2 - 7x^2 \\ & = -5x^2 \end{aligned}$$

$$\begin{aligned} 14. \quad & 3m^3 + 7m^3 - 15m^3 \\ & = -5m^3 \end{aligned}$$

$$\begin{aligned} 15. \quad & 3a + 5a \\ & = 8a \end{aligned}$$

$$\begin{aligned} 16. \quad & -5y^2 - 13y^2 + 10y^2 \\ & = -8y^2 \end{aligned}$$

$$\begin{aligned} 17. \quad & -5ab - 2ab + 9ab \\ & = 2ab \end{aligned}$$

$$\begin{aligned} 18. \quad & 9xy - (-2xy) - 4xy \\ & = 7xy \end{aligned}$$

$$\begin{aligned} 19. \quad & -5a^2 - 4a^2 + 3a^2 + 2a^2 \\ & = -4a^2 \end{aligned}$$

$$\begin{aligned} 20. \quad & 15a^2b + 6a^2b - 12a^2b - 9a^2b \\ & = 0 \end{aligned}$$

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1.  $x + 3 + 5x - 8$

$$= x + 5x + 3 - 8$$

$$= 6x - 5$$

2.  $3b + 4b + 7 - 3$

3.  $3a - a + 5 - 6$

4.  $4a - 7a + 10 - 15$

5.  $3y + 4y - 9w + 2w$

6.  $3p - p + 5 - 6$

7.  $3y - 4y - 7z + 5z$

8.  $x^2 + 3x^2 - 8 - 6$

9.  $3a - 5ad + 5c - 8c$

10.  $3p + 2 + 5p$

11.  $-9x + w + 3x$

12.  $-2a + 3 - 5a$

13.  $3x + 2 + 4x + 7$

14.  $9x + 7x + 2 + 9$

15.  $3a - 5b - 9a - 7b$

16.  $-2a - (-5b) - (-6a) - 9a$



**Combining like terms  
answers**

Simplify each expression by combining like terms.

$$\begin{aligned} 1. \quad & x + 3 + 5x - 8 \\ & = 6x - 5 \end{aligned}$$

$$\begin{aligned} 2. \quad & 3b + 4b + 7 - 3 \\ & = 7b + 4 \end{aligned}$$

$$\begin{aligned} 3. \quad & 3a - a + 5 - 6 \\ & = 2a - 1 \end{aligned}$$

$$\begin{aligned} 4. \quad & 4a - 7a + 10 - 15 \\ & = -3a - 5 \end{aligned}$$

$$\begin{aligned} 5. \quad & 3y + 4y - 9w + 2w \\ & = 7y - 7w \end{aligned}$$

$$\begin{aligned} 6. \quad & 3p - p + 15 - 16 \\ & = 2p - 1 \end{aligned}$$

$$\begin{aligned} 7. \quad & 3y - 4y - 7z + 5z \\ & = -2z - y \end{aligned}$$

$$\begin{aligned} 8. \quad & x^2 + 3x^2 - 8 - 6 \\ & = 4x^2 - 14 \end{aligned}$$

$$\begin{aligned} 9. \quad & 3a - 5ad + 5c - 8c \\ & = 3a - 5ad - 3c \end{aligned}$$

$$\begin{aligned} 10. \quad & 3p + 2 + 5p \\ & = 8p + 2 \end{aligned}$$

$$\begin{aligned} 11. \quad & -9x + w + 3x \\ & = -6x + w \end{aligned}$$

$$\begin{aligned} 12. \quad & -2a + 3 - 5a \\ & = -7a + 3 \end{aligned}$$

$$\begin{aligned} 13. \quad & 3x + 2 + 4x + 7 \\ & = 7x + 9 \end{aligned}$$

$$\begin{aligned} 14. \quad & 9x + 7x + 2 + 9 \\ & = 16x + 11 \end{aligned}$$

$$\begin{aligned} 15. \quad & 3a - 5b - 9a - 7b \\ & = -6a - 12b \end{aligned}$$

$$\begin{aligned} 16. \quad & -2a - (-5b) - (-6a) - 9a \\ & = -5a + 5b \end{aligned}$$

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### Combining like terms

Simplify each expression by combining like terms.

$$\begin{aligned} 1. & -3a + 6b - c - 2a + 3b + 4c \\ & = -3a - 2a + 6b + 3b - c + 4c \\ & = -5a + 9b + 3c \end{aligned}$$

$$2. 2p - 3r - 5p - 2r$$

$$3. x^2 - 2x - 3x^2 - x$$

$$4. 2x^2 - y^2 - 3x^2 + 5y^2$$

$$5. 1 - 2t + 3 - 3t - 7$$

$$6. 4b - 3c + 5 + 2b$$

$$7. a^2 + 7a - 6 + 5a^2 - 4a - 10$$

$$8. 2a + b - a + b$$

$$9. 2m + 4n - (-k) + m - 2n - 3k$$

$$10. 6a^2b - 4a^2b + 9ab^2 - 3ab^2$$

$$11. 6 - 9m - (-12) + 10m - (-5m)$$

$$12. 3 - 4t - 2s - (-5) - (-2t) - 9s$$

**Combining like terms**  
**answers**

Simplify each expression by combining like terms.

$$\begin{aligned} 1. & -3a + 6b - c - 2a + 3b + 4c \\ & = -5a + 9b + 3c \end{aligned}$$

$$\begin{aligned} 2. & 2p - 3r - 5p - 2r \\ & = -3p - 5r \end{aligned}$$

$$\begin{aligned} 3. & x^2 - 2x - 3x^2 - x \\ & = -2x^2 - 3x \end{aligned}$$

$$\begin{aligned} 4. & 2x^2 - y^2 - 3x^2 + 5y^2 \\ & = -x^2 + 4y^2 \end{aligned}$$

$$\begin{aligned} 5. & 1 - 2t + 3 - 3t - 7 \\ & = -3 - 5t \end{aligned}$$

$$\begin{aligned} (6.) & 4b - 3c + 5 + 2b \\ & = 6b - 3c + 5 \end{aligned}$$

$$\begin{aligned} 7. & a^2 + 7a - 6 + 5a^2 - 4a - 10 \\ & = 6a^2 + 3a - 16 \end{aligned}$$

$$\begin{aligned} (8.) & 2a + b - a + b \\ & = a + 2b \end{aligned}$$

$$\begin{aligned} (9.) & 2m + 4n - (-k) + m - 2n - 3k \\ & = 3m + 2n - 2k \end{aligned}$$

$$\begin{aligned} 10. & 6a^2b - 4a^2b + 9ab^2 - 3ab^2 \\ & = 2a^2b + 6ab^2 \end{aligned}$$

$$\begin{aligned} (11.) & 6 - 9m - (-12) + 10m - (-5m) \\ & = 18 + 6m \end{aligned}$$

$$\begin{aligned} 12. & 3 - 4t - 2s - (-5) - (-2t) - 9s \\ & = 8 - 2t - 11s \end{aligned}$$