

Math Foundations

Combining Like Terms Worksheet

Directions: Simplify each algebraic expression by combining like terms. Show your work!

Part A: Basic Combining

1. $3x + 4x =$ _____

2. $5y - 2y =$ _____

3. $7 + 2 - 3 =$ _____

4. $6a + 3a - a =$ _____

5. $9 - 4 + x + 2x =$ _____

Part B: Mixed Expressions

6. $2x + 3 + 4x - 1 =$ _____

7. $5a + 2b - 3a + b =$ _____

8. $6y - 2y + 4 - y =$ _____

9. $3x + 2x - 5x + 4 =$ _____

10. $10 + x + 5 - 3x =$ _____

Part C: Challenge Problems

11. $4x - 3 + 7x + 2 - x =$ _____

12. $8a + 2b - 3a + 6 - b + 1 =$ _____

Combining Like Terms – Answer Key

Part A:

1. $7x$

2. $3y$

3. 6

4. $8a$

5. $5 + 3x$

Part B:

6. $6x + 2$

7. $2a + 3b$

8. $3y + 4$

9. $0x + 4 = 4$

10. $15 - 2x$

Part C:

11. $10x - 1$

12. $5a + b + 7$