

Maths with Melissa

Collecting Like Terms and Subtracting Worksheet

Instructions

Solve the following problems involving collecting like terms and subtracting algebraic expressions. Show all your working.

Exercises

1. Simplify: $3x + 5x - 2x$
2. Simplify: $7y - 2y + 4y$
3. Simplify: $10a - 3a - 4a$
4. Simplify: $8m + 2n - 5m + 3n$
5. Simplify: $6p - (3p + 2p)$
6. Simplify: $(4x + 7) - (2x + 3)$
7. Simplify: $(9y - 5) - (4y - 2)$
8. Simplify: $(12a + 6b) - (8a + 2b)$
9. Simplify: $5x^2 + 3x - 2x^2 - x$
10. Simplify: $(7m - 4n) - (2m + 3n)$
11. Simplify: $(13p - 6q) - (5p - 2q)$
12. Simplify: $(8x^2 + 5x - 3) - (2x^2 + 7x + 6)$

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Answer Key

1. $3x + 5x - 2x = 6x$
2. $7y - 2y + 4y = 9y$
3. $10a - 3a - 4a = 3a$
4. $8m + 2n - 5m + 3n = 3m + 5n$
5. $6p - (3p + 2p) = 6p - 5p = p$
6. $(4x + 7) - (2x + 3) = (4x - 2x) + (7 - 3) = 2x + 4$
7. $(9y - 5) - (4y - 2) = (9y - 4y) + (-5 + 2) = 5y - 3$
8. $(12a + 6b) - (8a + 2b) = (12a - 8a) + (6b - 2b) = 4a + 4b$
9. $5x^2 + 3x - 2x^2 - x = (5x^2 - 2x^2) + (3x - x) = 3x^2 + 2x$
10. $(7m - 4n) - (2m + 3n) = (7m - 2m) + (-4n - 3n) = 5m - 7n$
11. $(13p - 6q) - (5p - 2q) = (13p - 5p) + (-6q + 2q) = 8p - 4q$
12. $(8x^2 + 5x - 3) - (2x^2 + 7x + 6) = (8x^2 - 2x^2) + (5x - 7x) + (-3 - 6) = 6x^2 - 2x - 9$