Subject: Maths

Class: 7

Topic: Simplifying Algebraic Expressions

Levels: Basic, Intermediate, Advanced

Level: Basic

1. Simplify the expression: 5x + 3x - 2x = _____

2. Identify the constant in the expression 4y + 7: _____

3. Rahul has 3b books and Priya gives him 5b more. Total books = _____

4. Simplify: 10a + 2b + 3a + 5b = _____

5. What is the value of 2x + 5 if x = 3? _____

6. Subtract 4m from 10m: _____

7. Simplify: (7p + 2) + (3p + 1) = _____

8. Write the coefficient of x in the expression 15x + 9: _____

9. Find the sum of 12z and 8z: _____

10. Simplify the expression: 100 - 20y + 5y = _____

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Level: Intermediate

1. Simplify: 4(x + 3) - 2x = _____

2. If a pen costs ? 5x and a notebook costs ? 10x, total cost is ? _____

3. Simplify: $7a^2 + 3a - 2a^2 + 5a$ = _____

4. Find the value of 3(m + n) when m=2 and n=4: _____

5. Simplify: 15y - (5y + 3) = _____

6. Solve: 10 + 2(3p - 1) = _____

7. Simplify: 1/2(4x + 8) + 3x = _____

8. Add: (5x + 2y) and (2x - y + 7): _____

9. Simplify using symbols: ? + 2? + 3x - x = _____

10. Subtract (3k - 5) from (10k + 2): _____

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Level: Advanced

1. Simplify: 3[2x - (x + 5)] + 10 = _____

2. Calculate: 5a + 2b - [3a - {b + 2a}] = _____

3. If x=2, find the value of $x^2 + 2x + 1$: _____

4. Simplify: (? + ?) + 2? - 0.5? = _____

5. A shopkeeper sells an item for ?(100x + 50) and gives a discount of ?(20x - 10). Net price = ? _____

6. Simplify the expression: $4x^2y - 2xy^2 + 3x^2y + xy^2$ = _____

7. Find the perimeter of a triangle with sides (x+1), (2x+2), and (3x-1): _____

8. Simplify: 2/3(9x - 6) + 5 = _____

9. If the area of a rectangle is (10a + 15b), what is 1/5th of the area? _____

10. Solve: $(x^2 + x + 1) - (x^2 - x - 1)$ = _____