



Combining like terms is an important algebraic skill, and practicing it with various examples can be very beneficial.

Combining Like Terms Worksheet

Questions Table:

| Question |
|---|
| 1. Simplify the expression: $2x + 3x$ |
| 2. Simplify the expression: $4y - 2y$ |
| 3. Simplify the expression: $3a + 2b - 4a$ |
| 4. Simplify the expression: $5x + 2y - 3x - 2y$ |
| 5. Simplify the expression: $2(3x + 4y)$ |
| 6. Simplify the expression: $2x - 3(4x - 2)$ |
| 7. Simplify the expression: $3(a + b) - 2(2a - 3b)$ |
| 8. Simplify the expression: $5x - 2y + 3x + y$ |
| 9. Simplify the expression: $4(2x - 3) - 2(5x + 1)$ |
| 10. Simplify the expression: $2a(3a + 2b) - b(4a - 5b)$ |
| 11. Simplify the expression: $7x + 2x - 3x$ |
| 12. Simplify the expression: $2y + 3y - 5y$ |
| 13. Simplify the expression: $4(a - b) - 2(3a + 2b)$ |
| 14. Simplify the expression: $3x + 2y + 5x - 2y$ |
| 15. Simplify the expression: $2(4x + 3y) - 3(2x - y)$ |
| 16. Simplify the expression: $5(a + b) - 2(2a + b)$ |
| 17. Simplify the expression: $6x + 4y - 2x - 3y$ |
| 18. Simplify the expression: $3(2x - y) + 2(3x + 4y)$ |
| 19. Simplify the expression: $2a + 2a + 2a$ |
| 20. Simplify the expression: $5x - 3x + 4x - x$ |



Solutions Table:

| Solution with Method of Work |
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| 1. $2x + 3x = 5x$ |
| 2. $4y - 2y = 2y$ |
| 3. $3a + 2b - 4a = (3a - 4a) + 2b = -a + 2b$ |
| 4. $5x + 2y - 3x - 2y = (5x - 3x) + (2y - 2y) = 2x$ |
| 5. $2(3x + 4y) = 6x + 8y$ |
| 6. $2x - 3(4x - 2) = 2x - 12x + 6 = -10x + 6$ |
| 7. $3(a + b) - 2(2a - 3b) = 3a + 3b - 4a + 6b = -a + 9b$ |
| 8. $5x - 2y + 3x + y = (5x + 3x) + (-2y + y) = 8x - y$ |
| 9. $4(2x - 3) - 2(5x + 1) = 8x - 12 - 10x - 2 = -2x - 14$ |
| 10. $2a(3a + 2b) - b(4a - 5b) = 6a^2 + 4ab - 4ab + 5b^2 = 6a^2 + 5b^2$ |
| 11. $7x + 2x - 3x = 6x$ |
| 12. $2y + 3y - 5y = (2y + 3y) - 5y = 5y - 5y = 0$ |
| 13. $4(a - b) - 2(3a + 2b) = 4a - 4b - 6a - 4b = -10a - 8b$ |
| 14. $3x + 2y + 5x - 2y = (3x + 5x) + (2y - 2y) = 8x$ |
| 15. $2(4x + 3y) - 3(2x -$ |