Simplifying Algebraic Expressions

In your groups, use the cards to model the given algebraic expressions. Use the commutative property to regroup the expression, and then simplify by combining like terms.

|  | Expression | Regroup | Simplify |
| --- | --- | --- | --- |
| 1. | (4x + 5y) + (3x + 8y) |  |  |
| 2. | (5x - 3y) + (2x + 6y) |  |  |
| 3.  | (x + 7y) – (3x + 2y) |  |  |
| 4. | (4x – 5y) + (-8x + 5y) |  |  |
| 5. | 4x + (3x – 7y) |  |  |
| 6. | (12x -3y) + (-8x + 7y) |  |  |
| 7. | -(4x – 5y) – (3x + 2y) |  |  |

# Simplify the following expressions:

1. (4a + 3b – 5c) + (2a -8b + 12c) 9. (4& + 3#) + (6& - 9#) 10. (Δ + 5Σ) + (-3Δ + 9Σ)