

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:

8. $(4a + 3b - 5c) + (2a - 8b + 12c)$

9. $(4g + 3h) + (6g - 9h)$

10. $(\Delta + 5\Sigma) + (-3\Delta + 9\Sigma)$