

Combining Like Terms

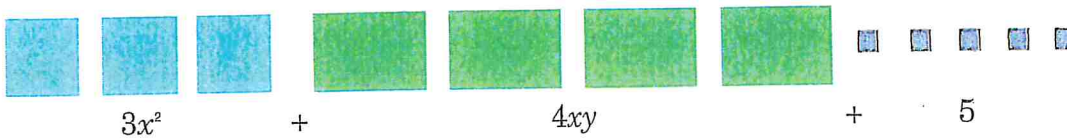
Steps

1. Build the expression with algebra tiles
2. Combine/Group like terms and sketch - ORDER: alphabetical with the highest exponent first, followed by the constant
3. Write the simplified expression

$$3xy + 4 + 2x^2 + xy + x^2 + 1$$



Combine like terms:



1. $y + x + xy + 4 + 2 + 3xy + 2y + 3 + x$

2. $5 + 4x + 2x + y + 3 + 3x + 7y + 1$

3. $2x + 2x^2 + 2y + 3 + 2x + 2x^2 + 3y + 1 + 2y + 2 + y$

4. $2xy + 4 + 2x^2 + xy + x^2 + 1 + 5 + 3 + xy$

5. $y^2 + 3xy + 4 + 3y^2 + 5x + 2xy + 4 + 2x + 10$

6. $xy + 5 + 2x^2 + 3xy + 3x^2 + 1 + xy + 3 + 12$

7. $2x + 2x + 2x + 2x^2 + 2y + 2x^2 + 1 + 2y + 2 + y$

8. $5x + 4y + 2x + y + 2 + 3x + 2y + 1$

9. $6y + 2x + 3xy + 3 + 2x^2 + 3y + 2 + 5 + 6x + 2xy + 3x^2 + 4y^2 + 3y + 3x$

10. $2xy + 4 + 2x^2 + 2xy + 2 - x^2 + 1 - 3 + xy - 3xy$