

The diagram illustrates the distributive property of multiplication over addition using algebra tiles. It is organized into three main horizontal sections:

- Top Section (Factors):**
 - Left Factor:** A horizontal row of 10 green vertical rectangles, each labeled x .
 - Right Factor:** A horizontal row of 7 squares: 3 blue squares labeled x^2 followed by 4 purple squares labeled y^2 .
- Middle Section (Expanded Product):** A grid of 70 small squares representing the product of the factors.
 - The first 3 columns consist of 10 blue squares each, labeled x^3 (representing $x \cdot x^2$).
 - The next 4 columns consist of 10 purple squares each, labeled xy^2 (representing $x \cdot y^2$).
- Bottom Section (Simplified Expression):** A single horizontal row of 70 small squares, identical to the middle section: 30 blue squares labeled x^3 and 40 purple squares labeled xy^2 .

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