

Solving a Linear Equation

Step 3: Subtract (-) or add (+) variable terms from or to both sides of the equation to get variable on only one side of = sign.

EITHER Subtract a Variable Term From Both Sides of Equation

$$\begin{array}{l} \text{Blue Circle } X + \text{Yellow Triangle} = \text{Green Square } X + \text{Purple Pentagon} \\ \hline \text{Blue Circle } X \qquad \qquad \qquad \text{Blue Circle } X \\ \hline 0 + \text{Yellow Triangle} = (\text{Green Square} - \text{Blue Circle}) X + \text{Purple Pentagon} \\ \text{Yellow Triangle} = \underline{\hspace{1cm}} X + \text{Purple Pentagon} \end{array}$$

Continue to next page for scaffold for adding a constant.

OR Add A Variable Term To Both Sides of Equation

$$- \text{blue circle} X + \text{yellow triangle} = \text{green square} X + \text{purple pentagon}$$

$$\underline{+ \text{blue circle} X} \qquad \underline{+ \text{blue circle} X}$$

$$0 + \text{yellow triangle} = (\text{green square} + \text{blue circle}) X + \text{purple pentagon}$$

$$\text{yellow triangle} = \underline{\quad} X + \text{purple pentagon}$$