

Solving Absolute Value Equations:

Step 1: Isolate absolute value expression (**|Expression|**); subtract any terms outside the absolute value signs; then divide by any coefficient in front of the absolute value expression.

Subtract a constant to isolate **|Expression|**

$$\begin{array}{r} | \text{Expression} | + \bigcirc = \triangle X + \square \\ - \bigcirc \\ \hline \end{array} = \begin{array}{r} \triangle X + \square \\ - \bigcirc \\ \hline \end{array}$$

$$| \text{Expression} | + 0 = \triangle X + (\square - \bigcirc)$$

$$| \text{Expression} | = \triangle X + \underline{\hspace{2cm}}$$

Continue to next page for scaffold to divide by a coefficient.

Divide by any coefficient in front of **| Expression |**

$$\square \cdot \text{| Expression |} = \triangle X + \bigcirc$$

$$\frac{\square}{\square} \div \frac{\square}{\square} = \frac{\triangle}{\square} X + \frac{\bigcirc}{\square}$$

$$\text{| Expression |} = \underline{\hspace{2cm}} X + \underline{\hspace{2cm}}$$