

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|**

$$\begin{array}{r} | \text{Expression} | + \text{○} = \text{△} X + \text{□} \\ - \text{○} \qquad \qquad \qquad - \text{○} \\ \hline \end{array}$$

$$| \text{Expression} | + 0 = \text{△} X + (\text{□} - \text{○})$$

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

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

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

$$\square \cdot \mathbf{| Expression |} = \triangle X + \circ$$

$$\frac{\square}{\square}$$

$$\frac{\square}{\square}$$

$$\mathbf{| Expression |} = \frac{\triangle}{\square} X + \frac{\circ}{\square}$$

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