

$$x^2 + \cancel{bx} + c \quad \begin{matrix} \text{ADD} \\ \text{MULTPLY} \end{matrix}$$

$$(x + \frac{\#_1}{=})(x + \frac{\#_2}{=})$$

Ex.

$$x^2 + \cancel{8x} + 15 \quad \begin{matrix} \text{ADD} \\ \text{MULT.} \end{matrix}$$

$$= (x + 3)(x + 5) = x^2 + 5x + 3x + 15$$

$$= x^2 + 8x + 15$$

Ex.

$$x^2 + \cancel{11x} + 24 \quad \begin{matrix} \text{ADD} \\ \text{MULT.} \end{matrix}$$

$$= (x + 3)(x + 8)$$

$$\begin{array}{r} 1 & 24 \\ 2 & \underline{-12} \\ 3 & 8 \\ 4 & 6 \end{array}$$

$$x^2 + \cancel{9x} + 14$$

$$= (x + 2)(x + 7)$$

$$\begin{array}{r} 1 & 14 \\ 2 & 7 \end{array}$$