




# December 7

## SWBAT:

### Write equivalent expressions by factoring trinomials



$$2x^2 - x - 21$$

$$\begin{array}{l} \text{a(c)} \\ \underline{-7} \times \underline{6} = 2(-21) = -42 \\ \underline{-7} + \underline{6} = -1 \end{array}$$

$$\begin{array}{l} \text{(b)} \\ 2x^2 - 7x + 6x - 21 \\ x(2x - 7) + 3(2x - 7) \\ (2x - 7)(x + 3) \end{array}$$

$$y^3 - 6y^2 + 8y$$

$$\begin{array}{l} y(y^2 - 6y + 8) \\ \underline{-4} \times \underline{-2} = (1)(8) = 8 \\ \underline{-4} + \underline{-2} = -6 \\ y[y^2 - 4y - 2y + 8] \\ y[y(y - 4) - 2(y - 4)] \\ y[(y - 4)(y - 2)] \end{array}$$