

8th Grade Lesson 82

- I can use order of operations to simplify expressions that contain signed numbers.

The order of operations for simplifying expressions that contain signed numbers is the same as the order of operations for simplifying expressions that contain unsigned numbers. **Always do the multiplication before doing the algebraic addition.**

$$2(-4) - 3 - (-6)(-3)$$

$$-8 - 3 - 18$$

$$-11 - 18$$

$$-29$$

Evaluate: $-x - xy$ if $x = -2$ and $y = -4$

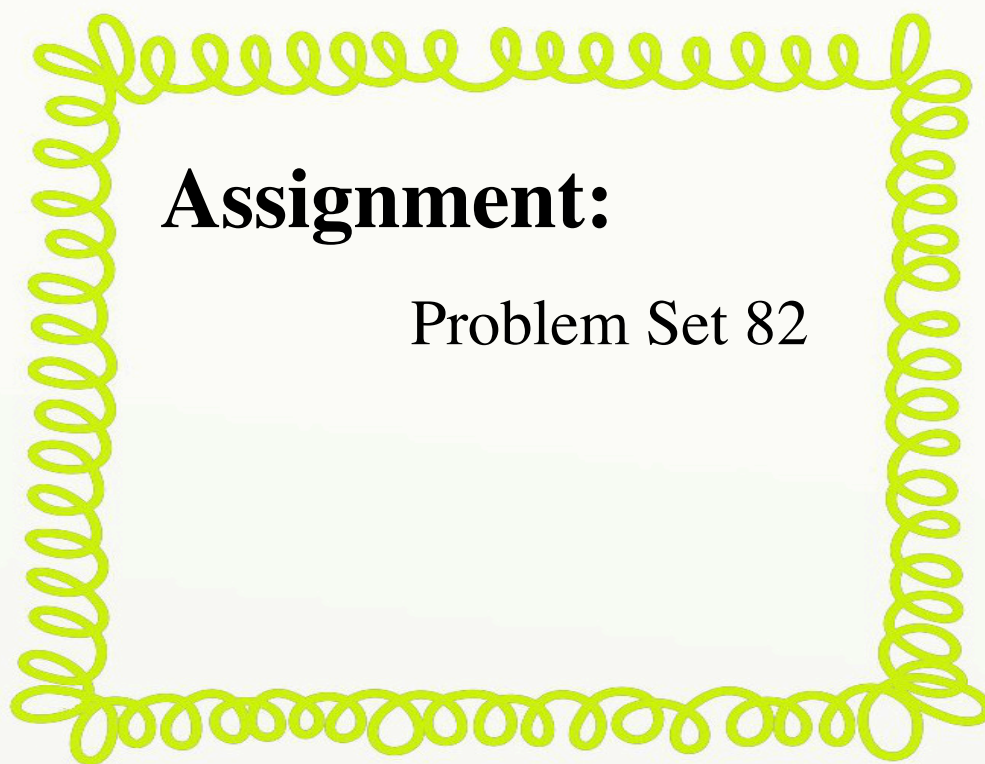
$$\begin{aligned} & -(-2) - (-2)(-4) \\ & (+2) - (+8) \\ & -6 \end{aligned}$$

Evaluate: $-a - xa$ if $x = -3$ and $a = 2$

$$\begin{aligned} & -(2) - (-3)(2) \\ & -2 - (-6) \\ & 4 \end{aligned}$$

Evaluate: $-xy - x$ if $x = -3$ and $y = -2$

$$\begin{aligned} & -(-3)(-2) - (-3) \\ & (-6) - (-3) \\ & -3 \end{aligned}$$



Assignment:

Problem Set 82