

**Starter**

-4-8

10 September 2018

Simplify by combining like terms.

$$2x^2y - 4xy^2 + 7y^3 + 8x^2y - 8xy^2$$

$$10x^2y - 12xy^2 + 7y^3$$

$$7y^3 + 10x^2y - 12xy^2$$

**SKYWARD**username is `firstname.lastname`

they don't know their password, they should do "forgot password" then check their school email for a reset password link. I highly recommend they use

`Gisd#####` (##### = D/lunch #)

which is the same as their password for computer/Google/Canvas login.

## The Distributive Property

- Simplifying an Expression

$$2(5x + 3) = 2 \bullet 5x + 2 \bullet 3 = 10x + 6$$

$$(3b - 2)\frac{1}{3} = \frac{1}{3} \bullet 3b - \frac{1}{3} \bullet 2 = b - \frac{2}{3}$$

$$2(3 - 7t) = 2 \bullet 3 - 2 \bullet 7t = 6 - 14t$$

## The Distributive Property

- Simplifying an Expression

$$\begin{aligned} -(6x + 4) &= -1 \bullet 6x + (-1) \bullet 4 = \\ &\quad + (-4) = -6x - 4 \end{aligned}$$

$$\begin{aligned} -(7 - 5b) &= -1 \bullet 7 - (-1) \bullet 5b = \\ &= -7 + 5b = \end{aligned}$$

## Distributive or Not?

$$2 + (6x + 4)$$

**NOT!**

$$-2(7 - 5b)$$

**YES!**

$$(4 - 5b)3$$

**YES!**

$$(2 \bullet 3x) \bullet 3$$

**NOT!**

simplify

$$1) 4(x - 2)$$

$$4x - 8$$

$$2) (2x + 3)6$$

$$12x + 18$$

$$3) 2(x + 4)$$

$$2x + 8$$

$$4) -5(2x - 3)$$

$$-10x + 15$$

$$5) 4 + 2(x + 1)$$

$$= 4 + 2x + 2$$

$$2x + 6$$