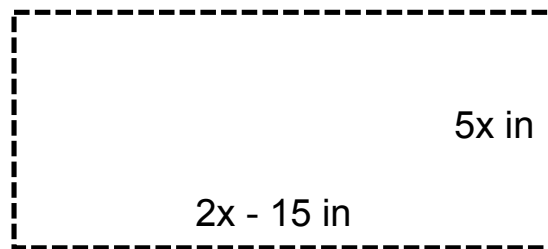
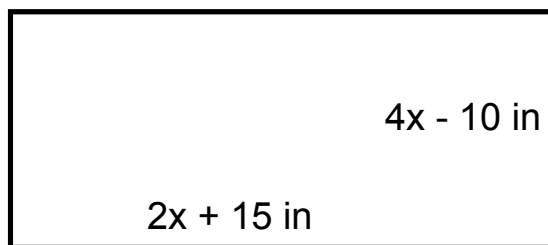


## Warm-up 2/14

1. Solve the following equation  $9x - 7i > 3(3x - 7u)$
2. Find the area and perimeter of the figures.



3. The perimeter of the solid rectangle and the perimeter of the dotted rectangle is the same. Write an equation and solve for  $x$ .
4. What is the actual area and perimeter of the rectangles?

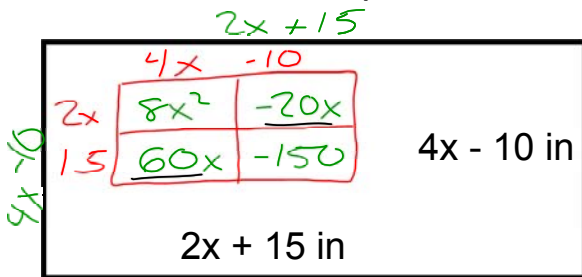
# Warm-up 2/14

1. Solve the following equation  $9x - 7i > 3(3x - 7u)$

$$\begin{array}{r}
 9x - 7i > 9x - 21u \\
 \hline
 -9x \qquad -9x \\
 \hline
 -7i > -21u \\
 \hline
 \frac{-7i}{-7} > \frac{-21u}{-7}
 \end{array}$$

$$i < 3u$$

2. Find the area and perimeter of the figures.

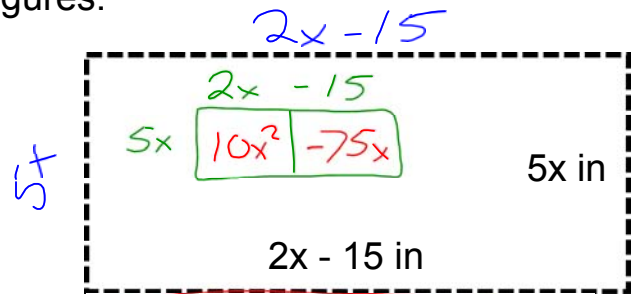


$$A: 8x^2 + 40x - 150 \text{ in}^2$$

$$2(2x + 15) + 2(4x - 10)$$

$$4x + 30 + 8x - 20$$

$$P: 12x + 10 \text{ in}$$



$$A: 10x^2 - 75x \text{ in}^2$$

$$2x - 15 + 5x + 2x - 15 + 5x$$

$$P: 14x - 30 \text{ in}$$

3. The perimeter of the solid rectangle and the perimeter of the dotted rectangle is the same. Write an equation and solve for x.

$$\begin{array}{r}
 12x + 10 = 14x - 30 \\
 \hline
 -14x \qquad -14x \\
 \hline
 -2x + 10 = -30
 \end{array}$$

$$x = 20 \text{ in}$$

$$\begin{array}{r}
 -2x + 10 = -30 \\
 \hline
 \quad -10 \quad -10 \\
 \hline
 -2x = -40 \\
 \hline
 \quad \frac{-2x}{-2} = \frac{-40}{-2}
 \end{array}$$

4. What is the actual area and perimeter of the rectangles?

$$8(20)^2 + 40(20) - 150$$

$$A: 3850 \text{ in}^2$$

$$12(20) + 10$$

$$P: 250 \text{ in}$$

$$10(20)^2 - 75(20)$$

$$A: 2500 \text{ in}^2$$

$$14(20) - 30$$

$$P: 250 \text{ in}$$

## What Method?

$$(25x - 10x^2) + (8x - 5x^2)$$

$$(-2x^3)(-x^2 + 8x - 5)$$

$$(x^2 + 2x + 1)(10x^2 + 8x + 5)$$

$$(2x + 1)(x - 2)$$

$$(25x - 10x^2) - (8x - 5x^2)$$

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

## What Method?

$$(25x - 10x^2) + (8x - 5x^2)$$

$$33x - 15x^2$$

$$\textcircled{-15} \quad -15x^2 + 33x$$

$$(x^2 + 2x + 1)(10x^2 + 8x + 5)$$


$$(25x - 10x^2) - (8x - 5x^2)$$

$$25x - 10x^2 - 8x + 5x^2$$

$$17x - 5x^2$$

$$-5 \quad -5x^2 + 17$$

$$(-2x^3)(-x^2 8x 5)$$

$$\textcircled{80x^6} \quad -2x^3 \textcircled{\quad} \overset{-40x^3}{\quad}$$

$$(2x + 1)(x - 2)$$

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

$$(a - 3)(2a + 4b - 7)(a + 1)$$

$$\underline{(a - 3)(2a + 4b - 7)(a + 1)}$$

$$\cancel{(a - 3)(a + 1)}(2a + 4b - 7)$$

$$a^2 + a - 3a - 3$$

$$(a^2 - 2a - 3)(2a + 4b - 7)$$

	$2a$	$4b$	$-7$
$a^2$	$2a^3$	$4a^2b$	$-7a^2$
$-2a$	$-4a^2$	$-8ab$	$14a$
$-3$	$-6a$	$-12b$	$21$

$$(x + 2)(x^2 + 4x - 3)(x + 1)$$

$$\underline{(x+2)}(x^2+4x-3)\underline{(x+1)}$$

$$\underline{(x+2)(x+1)}(x^2+4x-3)$$

$$(x+2)(x+1)$$

$$\rightarrow (x^2+3x+2)(x^2+4x-3)$$

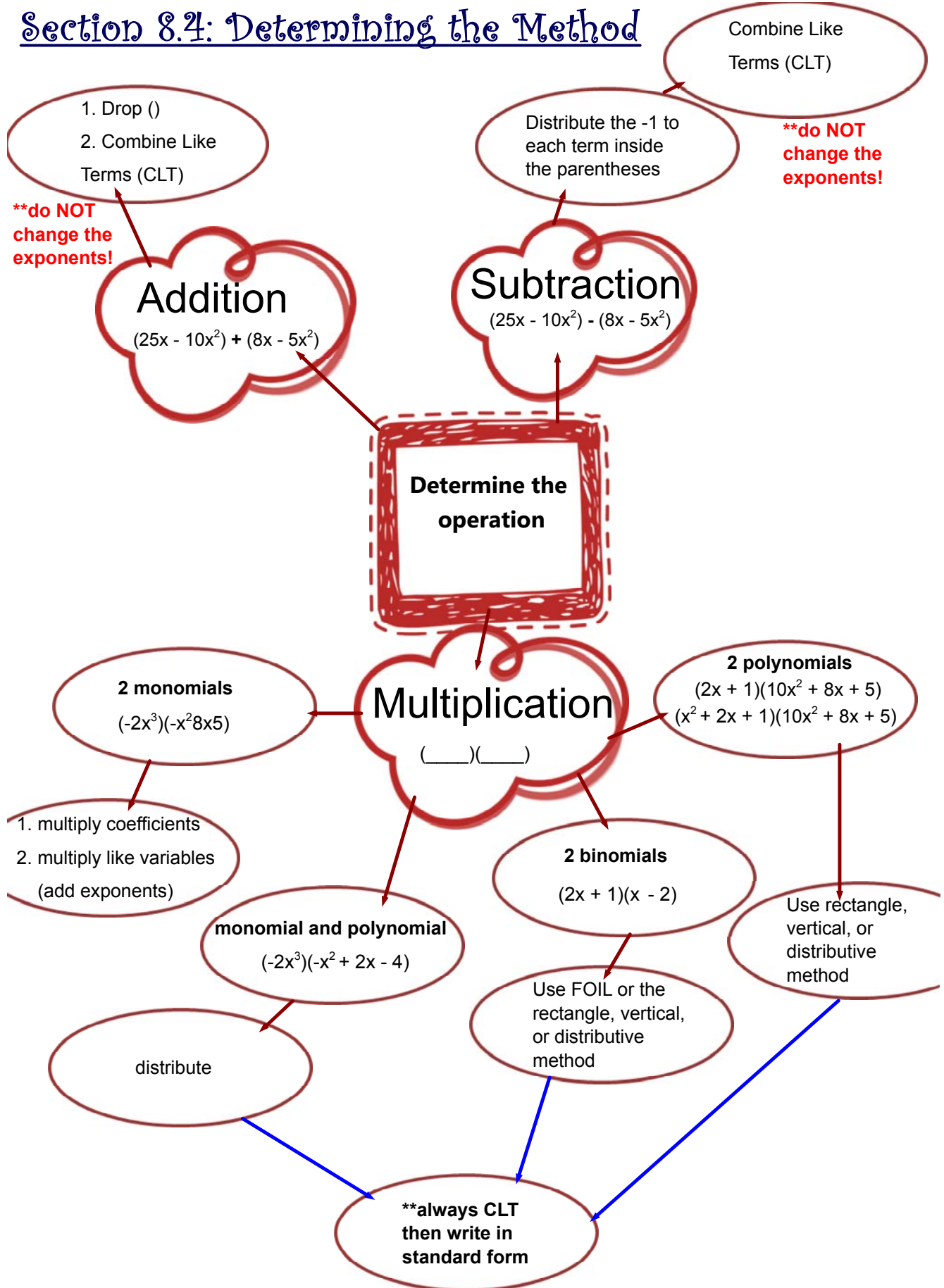
$$(x+2)(x) + (x+2)(1)$$

$$x^2+2x+x+2$$

$$(x^2+3x+2)$$



# Section 8.4: Determining the Method



# Work on your Projects and Review

I am here to help, so  
come and see me with  
any questions you have.