Center #1 – Simplify the expressions.

1)
$$2a-7+8b-4+3a$$

2)
$$-1.5(1-2n)+2.5-7n$$

3)
$$(2x-6)-(x-3)$$

4)
$$\frac{2}{5}(d-10)+\frac{2}{3}(d+6)$$

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

Center #2 – Write each word sentence as an equation or inequality and solve.

- 1. The Golden Gate bridge is about 2700 meters long. The Golden Gate bridge is four-fifths as long as the Coronado bridge. Write and solve an equation to find the length of the Coronado bridge.
- 2. You want to use a square section of your yard for a garden. You have at most 52 feet of fencing for the garden. Write and solve an inequality to represent the possible lengths of the side of the garden.

Center #3 – Factor out the coefficient of the variable.

1)
$$2b + 8$$

2)
$$-5q + 20$$

3)
$$\frac{2}{3}a + \frac{1}{2}$$

4)
$$-0.5r - 6$$

Center #4 – Solve the equation.

1)
$$-2 + j = -22$$

$$|t| - 3.7 = 2.2$$

$$-2 + j = -22$$
 2) $|t| - 3.7 = 2.2$ 3) $5.4x = -32.4$

4)
$$\frac{p}{5} = -10$$

4)
$$\frac{p}{5} = -10$$
 5) $\frac{w}{6} + \frac{5}{8} = -1\frac{3}{8}$ 6) $3(3w - 4) = -20$

$$3(3w-4) = -20$$

Center #5 – Solve the inequality and graph the solution.

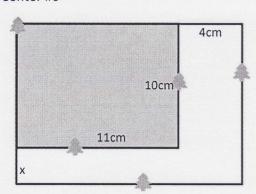
1)
$$8n + 4 \ge 64$$

2.
$$21 > \frac{2x}{7}$$

3.
$$-24 \ge 3b - 6$$

1)
$$8n + 4 \ge 64$$
 2. $21 > \frac{2x}{7}$ 3. $-24 \ge 3b - 6$ 4. $\frac{3}{11}k > 15$

Center #6



Write an expression in simplest form that represents the area of the white space.

Center #1 - Simplify the expressions.

2)
$$-1.5(1-2n)+2.5-7n$$

3)
$$(2x-6)-(x-3)$$

$$-1.5+3n+2.5-7n$$
 $2x-6-x+3$.

$$2x-6-x+3$$

 $x-3$
 $x+-3$

4)
$$\frac{2}{5}(d-10) + \frac{2}{3}(d+6)$$

 $\frac{2}{5}d - 4 + \frac{2}{3}d + 4$
 $\frac{6}{15}d + \frac{10}{15}d$
 $\frac{16}{15}d = \frac{1}{15}d$

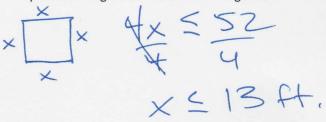
5)
$$(4a-3)-3(5-2a)$$

 $4a-3-15+6a$
 $10a-18$
or
 $10a+-18$

Center #2 – Write each word sentence as an equation or inequality and solve.

1. The Golden Gate bridge is about 2700 meters long. The Golden Gate bridge is four-fifths as long as the Coronado bridge. Write and solve an equation to find the length of the Coronado bridge.

2. You want to use a square section of your yard for a garden. You have at most 52 feet of fencing for the garden. Write and solve an inequality to represent the possible lengths of the side of the garden.



Center #3 - Factor out the coefficient of the variable.

1)
$$2b+8$$
 $2(b+4)$

$$-5(q-4)$$

3)
$$\frac{2}{3}a + \frac{1}{2}$$
 $\frac{1}{2} \cdot \frac{3}{2} = \frac{3}{4}$

$$\frac{2}{3} \left(\alpha + \frac{3}{4} \right)$$

4)
$$-0.5r-6$$
 $-0.5(r+12)$

Center #4 - Solve the equation.

1)
$$-2+j=-22$$

 $+2$
 $-2-20$

$$5.4x = -32.4$$
 5.4
 5.4
 5.4

4)
$$8 \cdot \frac{p}{5} = -10 \cdot 5$$

$$P = -50$$

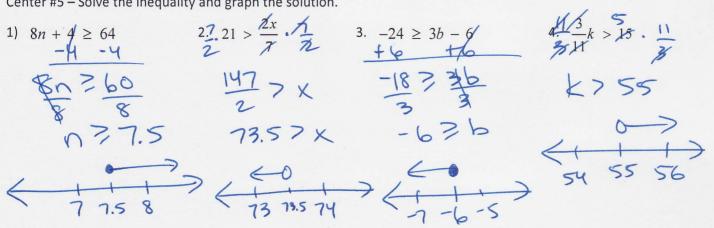
$$W = -12$$

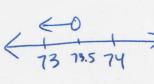
5)
$$\frac{w}{6} + \frac{15}{8} = -1\frac{3}{8}$$
 6) $3(3w-4) = -20$
 $-\frac{1}{8} - \frac{1}{8}$ 6) $9w - 12 = -20$
 $+12 + 12$
 $w = -12$
 $w = -12$
 $w = -8$

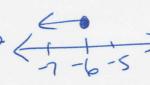
Center #5 – Solve the inequality and graph the solution.

1)
$$8n + 4 \ge 64$$
 $-4 - 4$
 $8n \ge 60$
 $8 \ge 7$

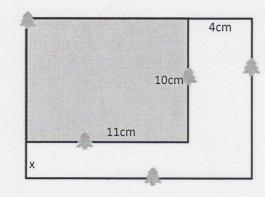
3.
$$-24 \ge 3b - 6$$
 $+6$
 $-18 > 3b$
 $-6 > b$







Center#6



Write an expression in simplest form that represents the area of the white space.

Smell 11x10=110 15x+150-110 15x + 40