

Aug 1

FEBRUARY 6, 2012

GET OUT SALMON WS1 FROM FRIDAY

$$19) \frac{16 \geq n + (+10)}{-10} \quad 28 \cdot 3 - 4 < \frac{x}{3} \cdot 3$$
$$6 \geq n \quad -12 < x$$

$$5) \frac{11 - 14 \leq n}{11} \cdot 11 \quad 21) \frac{5r < -30}{5}$$
$$-154 \leq n \quad r < -6$$

2/6 - Solving Two-Step Inequalities

Remember:

*When there are 2 operations,
do the one **connected** to the variable **last**.*

from before...

Connected to x
 \downarrow Do this one first
 \downarrow

$$\frac{x}{3} - 4 = 9$$

New - with inequalities...

$$\cancel{-7} + \frac{r}{5} \leq -4$$
$$\cancel{-7} + \cancel{\frac{r}{5}} \leq 3.5$$
$$r \leq 15$$

Try these. Remember to switch the inequality when necessary!

$$6n + 8 \leq -76$$
$$\begin{array}{r} -8 \\ -8 \end{array}$$

$$\frac{6n}{6} \leq \frac{-84}{6}$$

$$n \leq -14$$

$$\begin{array}{r} 6 \sqrt{84} \\ 6 \\ \hline 24 \\ 24 \\ 0 \end{array}$$

$$-4 < 5 + 9m$$
$$\begin{array}{r} -5 \\ -5 \end{array}$$

$$\frac{-9}{9} < \frac{9m}{9}$$

$$-1 < m$$

$$m > -1$$

Move Variable
to the left every
time now.

$$-4 < 10 - 7n$$
$$\begin{array}{r} -10 \\ -10 \end{array}$$

$$\frac{-14}{-7} < \frac{-7n}{-7}$$

$$2 > n$$

$$n < 2$$

$$-8 + \frac{x}{3} < -12$$

$+8$

~~$\frac{x}{3}$~~

$x < -12$

$$-5 \leq \frac{x}{2} - 1$$

-1

-4

-8

$x < -8$

$$-3 \leq -1 + \frac{m}{3}$$

$+1$

2

-6

? $m > -6$

HOMEWORK

Gold INEQUALITIES WS2

DUE Wednesday