

December 8, 2011

Get out your homework

$$\textcircled{1} \quad \frac{-4n}{-4} > \frac{-8}{-4}$$
$$n < 2$$



$$\textcircled{23} \quad \frac{4}{-3} \geq \frac{x+3}{-3}$$
$$1 \geq x$$
$$x \leq 1$$



12/8 - Solving Two-Step Inequalities

Remember:

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

from before...

Connected to x

Do this one first

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

New - with inequalities...

$$\begin{array}{r} -7 + \frac{r}{5} \leq -4 \\ +7 \quad \quad \quad +7 \\ 5 \cdot \frac{r}{5} \leq 3 \cdot 5 \\ r \leq 15 \end{array}$$

Try these. Remember to switch the inequality when necessary!

$$\begin{array}{r} 6n + 8 \leq -76 \\ \cancel{-8} \quad \quad \quad \cancel{-8} \\ \hline 6n \leq -84 \\ \hline 6 \quad \quad \quad 6 \\ \hline n \leq -14 \end{array}$$

$$\begin{array}{r} -4 < 5 + 9m \\ \cancel{-5} \quad \quad \quad \cancel{-5} \\ \hline -9 < 9m \\ \hline 9 \quad \quad \quad 9 \\ \hline -1 < m \\ m > -1 \end{array}$$

$$\begin{array}{r} -4 < 10 - 7n \\ \cancel{-10} \quad \quad \quad \cancel{-10} \\ \hline -14 < -7n \\ \hline \rightarrow \quad \quad \quad \rightarrow \\ 2 > n \\ n < 2 \end{array}$$

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

$$\begin{array}{l} +8 \\ \omega \cdot \\ \frac{x}{3} < -4 \end{array} \quad \begin{array}{l} +8 \\ \frac{x}{3} < -12 \end{array}$$

$$\begin{array}{l} \omega \cdot \\ \frac{x}{3} < -12 \\ \omega \cdot \\ \frac{x}{3} < -12 \\ \omega \cdot \\ \frac{x}{3} < -12 \end{array}$$

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

$$\begin{array}{l} +1 \\ -4 \leq \frac{x}{2} \end{array} \quad \begin{array}{l} +1 \\ -8 \leq x \end{array}$$

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

$$\begin{array}{l} +1 \\ -2 \leq \frac{m}{3} \end{array} \quad \begin{array}{l} +1 \\ -6 \leq m \end{array}$$

Homework:

Lilac Worksheet 16

Due: Monday

