

DECEMBER 12, 2011

Get out your homework

5) $-10 \leq -8 + \frac{p}{5}$

5. $-2 \frac{p}{5} \leq -5$

	+8		+8	
5.	-2		$\frac{p}{5}$	-5
	-10		p	
	p		-10	

24 possible



12/12 - Two-Step Inequalities with Rational Numbers

Remember:

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

$$\begin{array}{r}
 19.3 \\
 -7.72 \\
 \hline
 11.58 \\
 \div 2 \\
 \hline
 5.79
 \end{array}$$

$$\begin{array}{r}
 -0.4p + 2.1 < -5.62 \\
 - 2.1 \phantom{ < -5.62} \\
 \hline
 -0.4p < -7.72 \\
 \div -0.4 \\
 \hline
 p > 19.3
 \end{array}$$

$$\begin{array}{r}
 -7.16 \\
 -8.6 \\
 \times 0.9 \\
 \hline
 -7.7 \\
 -61.6 \\
 \hline
 x < 61.6
 \end{array}$$

$$\begin{array}{r}
 x \\
 \div 8 \\
 \hline
 x + 2.4 \\
 - 2.4 \\
 \hline
 x < 61.6
 \end{array}$$

$$\frac{1}{2} \geq \frac{2}{3}n - 3\frac{1}{2}$$

$+3\frac{1}{2}$
 $\frac{1}{2} + 3\frac{1}{2} \geq \frac{2}{3}n - 3\frac{1}{2} + 3\frac{1}{2}$
 $4 \geq \frac{2}{3}n$
 $\cdot \frac{3}{2}$
 $6 \geq n$
 $n \leq 6$

$$\frac{-5\frac{7}{12}}{\frac{1}{2}} \geq \frac{1\frac{2}{3}x - 3\frac{1}{2}}{\frac{1}{4}}$$

$$-5\frac{7}{12} \geq 1\frac{2}{3}x - 3\frac{1}{2}$$

$+3\frac{1}{2}$
 $-5\frac{7}{12} + 3\frac{1}{2} \geq 1\frac{2}{3}x - 3\frac{1}{2} + 3\frac{1}{2}$
 $-2\frac{1}{2} \geq \frac{2}{3}x$
 $\cdot \frac{3}{2}$
 $-4\frac{1}{4} \geq x$
 $x \leq -4\frac{1}{4}$

$$1\frac{5}{6} < -3\frac{2}{3}p - 3\frac{2}{3}$$

$$6\frac{2}{3} > -2\frac{1}{3}r + 2$$

HOMework:

Blue Worksheet 16

Due Tuesday



