

1/31

Multiple-Step Inequalities

$$3p-5 > 2p+p-7$$

$$3p-5 > 3p-7$$

$$-5 > -7$$

Every real number
makes this true

$$4+9y-3 > 3(3y+2)$$

$$9y+1 > 9y+6$$

Is this true? $1 > 6$ No solution

2-Step

Step 1 +/-
INVERSE

STEP 2 \div/x
INVERSE

On the clock 3 min
3-4 Pg 314

No value
for
 y can
make
this
true.



$$\begin{array}{r} 8n-2 > 17n+9 \\ -9 \qquad -9 \\ \hline 8n-11 > 17n \\ -8n \qquad -8n \\ \hline -11 > 9n \\ \frac{-11}{9} > \frac{9n}{9} \\ -\frac{11}{9} > n \end{array}$$

#9

$$\begin{array}{r} 4-2m > 7-3m \\ +3m \quad +3m \\ \hline \end{array}$$

$$4+m > 7$$

$$\begin{array}{r} -4 \quad -4 \\ \hline \end{array}$$

$$m > 3$$