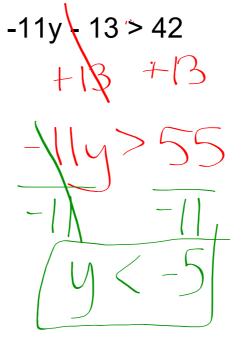
# Solving Multi-Step Inequalities

### **Clear Learning Target**

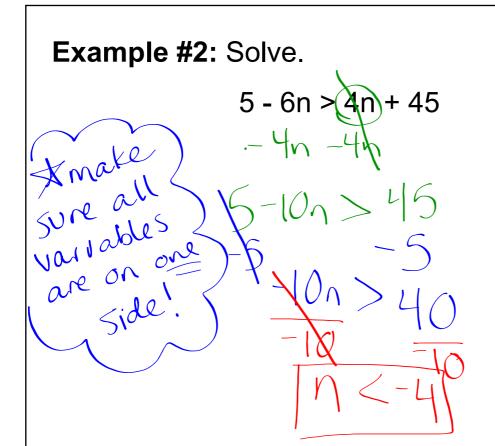
You will be able to solve multi-step algebraic inequalities using properties of inequalities.

# Example #1: Solve.



# You Try! Solve.

$$\begin{array}{c|c}
 43 > -4y + 11 \\
 -11 & -11 \\
 \hline
 32 > -4y \\
 -4 & -4 \\
 \hline
 -8 < 4 \\
 \hline
 43 > -4y + 11 \\
 \hline
 -11 & -11 \\
 \hline
 -24 & -44 \\
 \hline
 -44 & -44 \\
 \hline
 -8 < 4 \\
 \hline
 -8 < 4 \\
 \hline
 -8 < 4 \\
 \hline
 -9 < 4 \\
 \hline
 -11 < 4 
 -11 < 4 
 \hline
 -11 < 4 
 -11 < 4 
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 -11 < 4 
 -11 < 4 
 -11 < 4 
 -11 < 4 
 -11 < 4 
 -11 < 4 
 -11 < 4 
 -11 < 4$$



## You Try! Solve.

$$3b - 6 \ge 15 + 24b$$
 $-24b$ 
 $-24b$ 
 $-21b \ge 25$ 
 $-21b \ge 21$ 
 $-21b$ 
 $-21b$ 

# Example #3: Solve.

$$3(a - 7) \le 12$$

# You Try! Solve.

$$-6 \le 3(5v - 2)$$