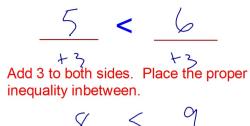
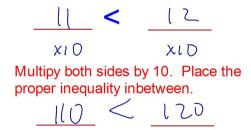
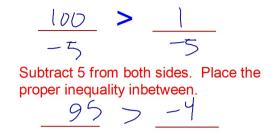
Pick two numbers and place them in the spaces to make a true statement.



Pick two numbers and place them in the spaces to make a true statement.



Pick two numbers and place them in the spaces to make a true statement.



Pick two numbers and place them in the spaces to make a true statement.



Divide both sides by 2. Place the proper inequality inbetween.



Pick two numbers and place them in the spaces to make a true statement.



Multipy both sides by -10. Place the proper inequality inbetween.

$$-60 < -10$$

The following steps DON'T affect the direction of the inequality:

- Adding the same number to both sides
- Subtracting the same number from both sides
- Multiplying both sides by the same positive number
- Dividing both sides by the same positive number

Pick two numbers and place them in the spaces to make a true statement.

Divide both sides by -2. Place the proper inequality inbetween.

$$\frac{-10}{}$$
 > -15

The following steps **DO** affect the direction of the inequality:

- Multiplying both sides by the same negative number
- Dividing both sides by the same negative number

Why does multiplying or dividing each side of an inequality by a negative number make the Inequality Symbol FLIP?

If you multiplied both sides by POSITIVE 2 2(8) would still be further to the right of 2(5) so

If, instead, you multiply both sides by -2.

$$5(-2)$$
 $8(-2)$ $-10 > -16$

Now 5(-2) is the one that is further to the right which means that it is now the larger number.

Solve this inequality:

$$x + 6 - 5x - 8 > 26$$
 $-4x - 2 > 26$

Answer:

$$\frac{-4\times28}{-4\cdot1}$$

When solving INEQUALITIES:

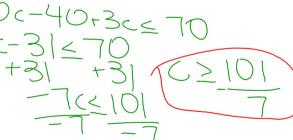
- Take all the same steps as if it were an EQUATION
- If you multiply or divide both sides by a **NEGATIVE** you must FLIP the inequality symbol.

This is usually the last step.

Solve this inequality:

$$9 - 5(2c + 8) + 3c \le 70$$

Answer:



You can now finish Hwk #15

Sec 3-4

Pages 155-157

Problems 2, 3, 6, 13, 15, 27, 36, 67, 74

Solve this inequality and graph the solution.

$$\frac{2}{2} \cdot \frac{5}{24} \cdot \frac{\$}{\$} \cdot \frac{11}{6} G \ge \frac{7}{16}$$

$$\frac{10}{48} - \frac{88}{48} = \frac{21}{48}$$