

# Warm-Up

LCM = 6

$$A. \overset{(6)}{\frac{x}{3}} + \overset{(6)}{\frac{7}{6}} = \overset{(6)}{\frac{2}{3}}$$

$$\frac{6x}{3} + \frac{42}{6} = \frac{12}{3}$$

$$2x + 7 = 4$$

$$2x + \boxed{7-7} = 4-7$$

$$\frac{2x}{2} = \frac{-3}{2}$$

$$\boxed{x = -\frac{3}{2} = -1\frac{1}{2}}$$

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$$B. \overset{\curvearrowright}{6(p-1.5)} = \overset{\curvearrowright}{5(2p+1.8)}$$

$$6p - 9 = 10p + 9$$

$$6p - 10p - 9 = \boxed{10p - 10p} + 9$$

$$-4p - 9 = 9$$

$$-4p \boxed{9+9} = 9+9$$

$$\frac{-4p}{-4} = \frac{18}{-4}$$

$$p = -\frac{18}{4}$$

$$-4\frac{1}{2}$$

$$-4\frac{2}{4}$$

$$2(x-4) - 3(x+2) = 23$$

$-3(x+2) + 2(x-4)$

$$2x - 8 - 3x - 6 = 23$$

$$2x - 3x \boxed{-8-6} = 23$$

$$-1x - 14 = 23$$

$$-x \boxed{-14+14} = 23+14$$

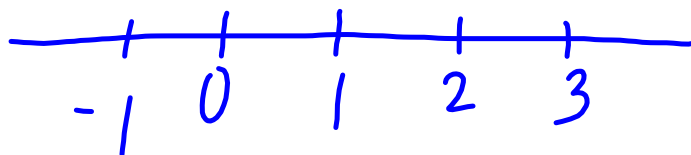
$$-x = 37$$

$$x = -37 \leftarrow$$

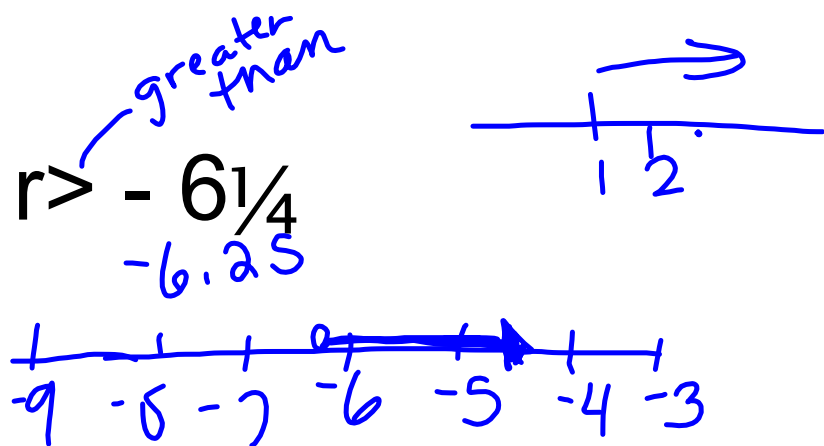
## Inequalities

### Points to remember:

- \* Have a  $>$  or  $<$  sign  $1 < 6$   $6 > 1$   $4 \leq 7$
- \*  $\leq$  less than or equal to
- \* When solving for the most part it is the same as solving equations EXCEPT when multiplying or dividing by a negative in the final step \* Reverse the direction of the inequality sign
- \* represent your answer on a number line  $x < 1$   $x < 1.5$  [Graph]



A. Draw a number line to show

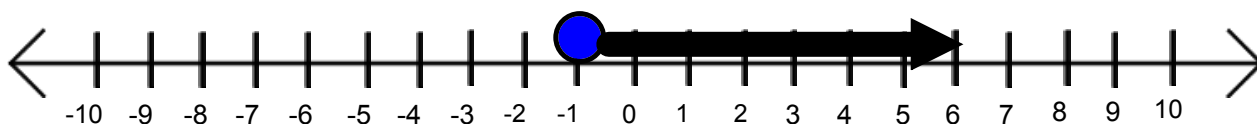


B. What are 4 possible solutions???

4, 420, -5.2, 0

Write an inequality to represent the number line below:

$$x \geq -1$$



$$90 + 5d < 100 + 4d$$

A. Solve

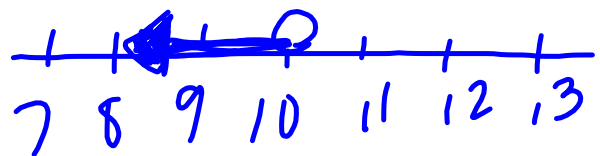
$$90 + 5d - 4d < 100 + \boxed{4d - 4d}$$

B. Graph

$$90 + d < 100$$

$$\boxed{90 - 90} + d < 100 - 90$$

$$d < 10$$



Solve and Graph

$$-6(2 + 6a) > 12 + 2a$$

$$-12 - 36a > 12 + 2a$$

$$-12 - 36a - 2a > 12 + \boxed{2a - 2a}$$

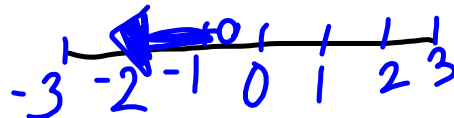
$$\boxed{-12 - 38a > 12}$$

$$\textcircled{-0.63}$$

$$\boxed{-12 + 12} - 38a > 12 + 12$$

$$\frac{-38a}{-38} > \frac{24}{-38}$$

$$a < \frac{-24}{38} = -\frac{12}{19}$$



$$3(-4v + 6) - 2 \geq v - 17$$

$$-12v + 18 - 2 \geq v - 17$$

$$-12v - v + 18 - 2 \geq \boxed{v - v} - 17$$

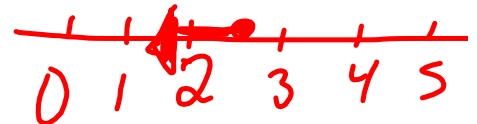
2.54

$$\boxed{-13v + 16 \geq -17}$$

$$-13v \boxed{+16-16} \geq -17-16$$

$$\frac{-13v}{-13} \geq \frac{-33}{-13}$$

$$v \leq \frac{33}{13} \quad 2\frac{1}{13}$$





$$2(x+4) - 1(x-3) = 7$$
$$-1(x-3) + 2(x+4) = 7$$

Homework  
1-28      Chp 6 Review

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Extra practice  $\rightarrow$  worked out answers  
Extra practice  $\rightarrow$  with answers

