

- remember
- 1) Solve using inverse operations to isolate the variable
 - 2) Use order of operations backwards (1) Add/Subtract (2) Multiply/Divide
 - 3) when multiplying or dividing both sides by a negative \rightarrow FLIP the sign!
 - 4) Use integer, fraction, and decimal rules when applicable.

Ex. 1 / Solve and graph.

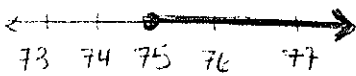
A) $\frac{2}{3}x - 37.8 \geq 12.2$

$$\frac{2}{3}x - 37.8 \geq 12.2$$

$$\begin{array}{r} +37.8 \\ +37.8 \end{array}$$

$$\frac{2}{3} \cdot \frac{3}{2} \cdot \frac{2}{3}x \geq \frac{50.2}{1} \cdot \frac{3}{2}$$

$$x \geq 75$$



B) $4\frac{5}{8} > -\frac{1}{4} - 2y$

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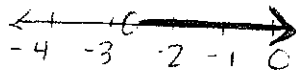
$$\frac{2}{2} + \frac{1}{4} + \frac{1}{4}$$

$$4\frac{7}{8} > -2y$$

$$\frac{1}{2} \cdot \frac{39}{8} > \frac{-2y}{2} \cdot \frac{1}{2}$$

$$-\frac{39}{16} < y$$

$$y > -2\frac{7}{16}$$



C) $9z < -7.2$

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$$\frac{9z}{9} < \frac{-7.2}{9}$$

$$z < -0.8$$

