

You Try

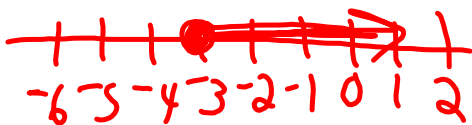
Solve each inequality, check your solution and graph

$$2) \quad -15 - 4x \leq 3x + 6$$

$$-4x - 3x \leq +6 + 15 \quad m = \#$$

$$\frac{-7x}{-7} \leq \frac{+21}{-7}$$

$$x = \# \quad x \geq -3$$

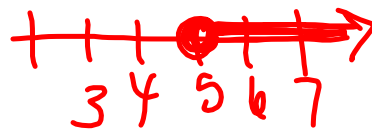


$$3) \quad 8m - 2 \geq 13 + 5m$$

$$8m - 5m \geq 13 + 2$$

$$\frac{3m}{3} \geq \frac{15}{3}$$

$$m \geq 5$$



1. A gas tank can hold no more than 25 liters of gas.

Let $L =$ Liters.

$$L \leq 25$$

2. Kid sizes go to a maximum of size 3.

Size = S

$$S \leq 3$$

3. You must be 48" or smaller to enter the jumpy castle at the fair.

$$\text{Height} = H$$

$$H \leq 48$$

4. Every year more and more people join the mango run. This year they estimate more than 500 runners.

$$\text{Let runners} = r$$

$$r > 500$$

Using an Inequality to Model and Solve a Problem

The 120 Culinary Class decided to raise money by organizing a supper for the seniors home. The cost of preparing the food is \$675 and the students are charging \$9.00 a plate. How many seniors must buy suppers in order to make a profit more than \$765.



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Let $p =$ plates

$$9p - 675 > 765 + 675$$

$$\frac{9p}{9} > \frac{1440}{9}$$

$$p > 160$$



Class/Homework



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