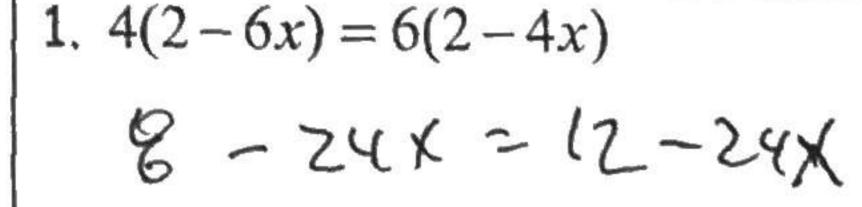
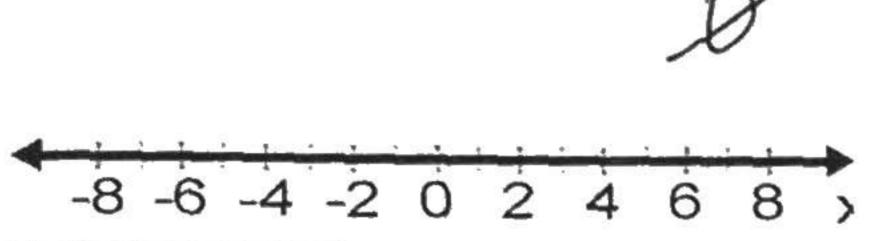
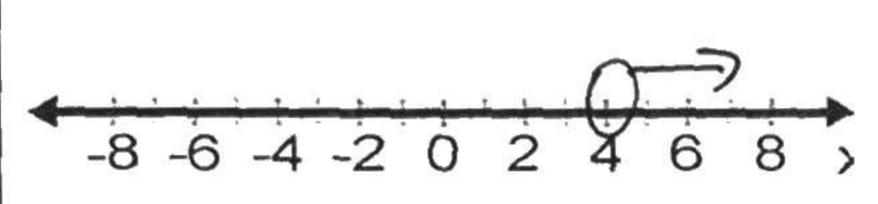
## Solve & Graph:





$$-8 -6 -4 -2 0 2 4 6 8$$

2. 
$$5x-12 > 8$$



5. 
$$3(x-1) > 7(x+3)$$

$$3x-3>7x+21$$
 $-4x>24$ 
 $x<-6$ 

3. 
$$23 + 3x \le 15 - x$$

6. 
$$5(x-2) \ge 4(2x+3)+2$$

## Solve each proportion:

7. 
$$\frac{41}{14}$$
  $\frac{24}{x}$   $\frac{41}{x}$   $\frac{41}{x}$   $\frac{24}{x}$   $\frac{41}{x}$   $\frac{41}{$ 

$$\frac{1}{3} = \frac{6}{x}$$
8.  $\frac{1}{3} = \frac{6}{x}$ 

$$\frac{1}{3} \times = 18$$

$$\times = 54$$

$$9. \frac{9+m}{5} = \frac{15}{4}$$

$$36 + 4m = 75$$

$$4m = 39$$

$$4 = 9/2$$

$$\frac{2}{x-5} = \frac{6}{9}$$

$$18 = 6x - 30$$

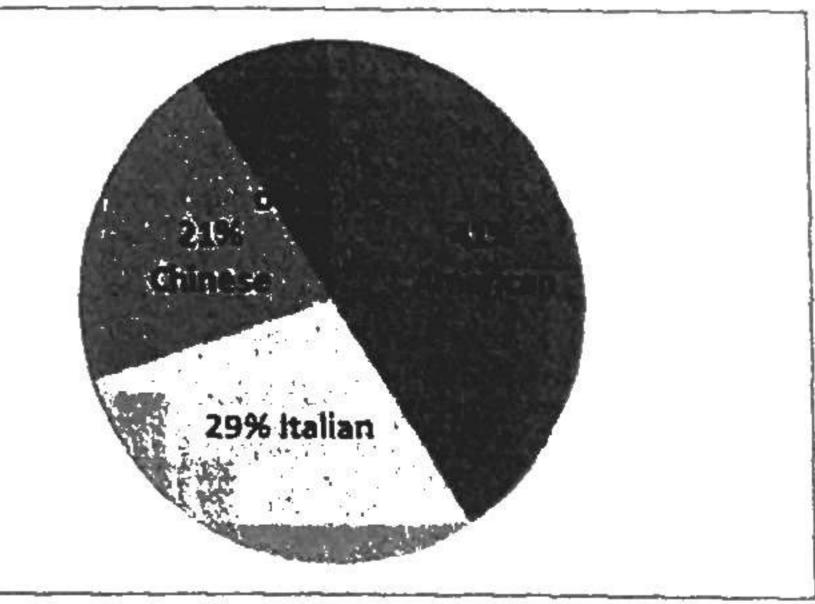
$$48 = -6x$$

$$8 = x$$

11. A model of a building has a ratio of 3 cm to every 2 feet of the actual building. How tall is the model if the building is 74 feet tall?

$$\frac{3}{2} = \frac{x}{74}$$
 $\frac{3}{2} = \frac{7}{74}$ 
 $\frac{3}{2} = \frac{7}{74}$ 

12. A sample of students was asked what type of restaurant they visit most often. If 126 students chose Chinese restaurants, how many students were polled?



2180 X = 126

X = 600