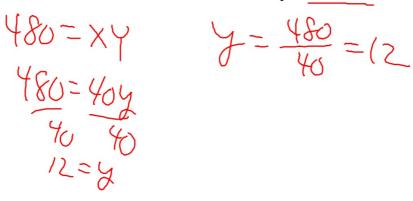
## Alg 2 Bellwork Tuesday, December 10, 2013

- 1. Mass of an object varies inversely with its velocity. An object with a mass of 15kg is moving with a velocity of 32 ft/s. K= XY= (32/15)=480
  - a. Write an inverse variation equation.
    b. Find the mass when the velocity is 40 ft/s.



- 2. Your distance from lightning varies directly with the time it takes for you to hear the thunder. If you hear thunder 2.4 seconds after seeing a lightning bolt, you are about 12miles from the lightning.
- a. Write a direct variation equation.

$$12/2.4 = 5$$
  $\frac{4}{5} = 5$ 

b. Find the your distance from a lightning bolt if you hear the thunder in 0.5 seconds,

