Math 107
Spring 2017
Lecture 3

Some Review:

① Translate only

4 times the difference of Some number and

8 is equal to 10 less twice the number. 4(x-8)=10-2xTwice the Sum of Some number squared and 10 is equal to the number reduced by 8. $2(x^2+10)=x-8$

H.75% of what number is 213.75?

By Translation

$$4.75 \cdot \chi = 213.75$$
 0475×213.75
 $\chi = \frac{213.75}{0475}$
 $\chi = \frac{213.75}{0475}$

The second second is 213.75.

By Proportion

Whole comes after of $\frac{P}{100} = \frac{Part}{Whole} = \frac{4.75}{100} = \frac{213.75}{\chi}$

Part comes with is

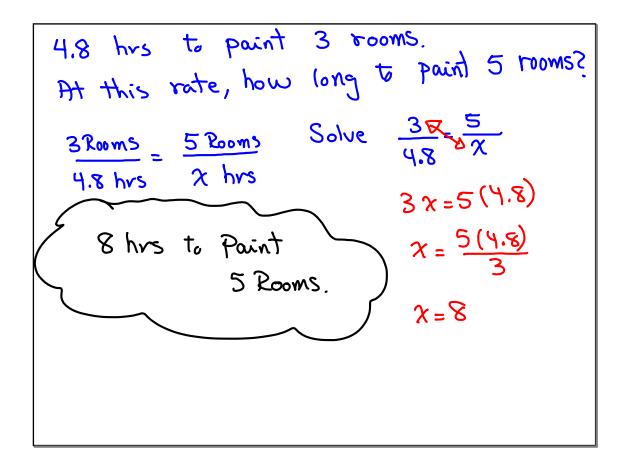
$$\frac{4.75 \cdot 213.75}{100} \quad \text{Cross-Moltiply}$$

$$4.75 \cdot \chi = 100 (213.75)$$

$$\chi = \frac{100 (213.75)}{4.75}$$

$$\chi = 4500$$

$$4.75 \cdot \lambda = 4500 \quad \text{is} \quad 213.75$$



Howard weighs 85 pounds on earth, but he weighted 50 pounds in Space.

At this rate, how much a person that weighs 255 pounds on earth would weigh in Space? $\frac{85 \text{ lb. Earth}}{50 \text{ lb. Space}} = \frac{255 \text{ lb. Earth}}{\chi} = \frac{255 \text{ lb. Earth}}{\chi} = \frac{85 \text{ lb. Space}}{\chi} = \frac{150 \text{$

 Spiral Method:

Always go back & review old materials

WP Section 3 Due nextweek.

Late work are Still Welcomed.

There are 19 people in this classroom.

The number of Semales is 5 more than the number of males. How many of each? Parts: Males $\rightarrow x$ Total = 19 Females $\rightarrow x + 5$ Sum of the Parts is equal to the total.

Males + Females = Total x + x + 5 = 19 x + 5 = 19

$$2x + 5 = 19 - 5$$

$$2x = 14$$

$$x = \frac{14}{2} \quad x = 7$$

$$\pi \text{ Males } \dot{\xi} \text{ 12 Females}$$

John Picked up 23 pens in black and red.

The number of red pens was I sewer than

Twice the number of black pens. How many

of each?