## 5.3 Writing and Solving Proportions p.180

## ALWAYS ASK YOURSELF IF YOUR ANSWER IS REASONABLE??????

	Last Month	This Month
Purchase	2 ringtones	3 ringtones
Total Cost	6 dollars	x dollars

2.

	Original Recipe	New Recipe
Black Beans	1.5 cups	6 cups
Tomatoes	1 tomato	x tomatoes

tomatus 1.5 - 6 4 tomatoes

test worth 150 points; test score of 96%  $\rightarrow$  160 % means out of 100  $\times$  150  $\times$  144 points

$$\frac{x}{150} = \frac{96}{100}$$

4. A school has 950 students. The ratio of female students to all students is 48 to 95 How many students are female?

female × 950 = 48 | 480 female students

5. The ratio of quarts to gallons is 4:1. If a recipe calls for 14 quarts, how many gallons would be needed?

6. You estimate that you can do 12 math problems in 30 minutes. How long will it take you to do 20 problems?

7. You can paint 420 square feet of a wall in 36 minutes with your new sprayer. How many square feet can you paint in 30 minutes?

\*(8) 6 apples weigh about 1.5 pounds. Apples are on sale at Vons for \$1.20/pound. How much will 10 apples cost?

$$\frac{\text{apples}}{\text{pounds}} = \frac{6}{1.5} = \frac{10}{x}$$

9. A test is worth 40 points. What is needed to get a 75%?

(10) There are 156 marbles in a bag. The ratio of red to blue is 8:5. How many marbles are red? How many are blue?