## Day 2: Proportions

1. Describe and correct the error in the proportion below to solve the following problem: To make green eggs and ham, 3 drops of <u>blue</u> food coloring is mixed with 4 drops of <u>yellow</u> food coloring. Find the number b of blue drops to add to 18 drops of yellow.

yellow 
$$\frac{3}{4} = \frac{18}{b}$$
 blue

What is the error?

must match top to top and bottom to bottom. So, blue to blue and yellow to yellow. Let's fix it...

2. The ratio of Isabella's money to Shane's money is 3:11. If Isabella has \$33, how much do they have together? Solve this problem and then create a SECOND proportion you could use to solve.

3 Isabella 
$$\frac{3}{11}$$
 Shane  $\frac{3}{12}$  Isabella  $\frac{3}{12}$  Shane  $\frac{3}{12}$  Shane  $\frac{3}{12}$  Shane

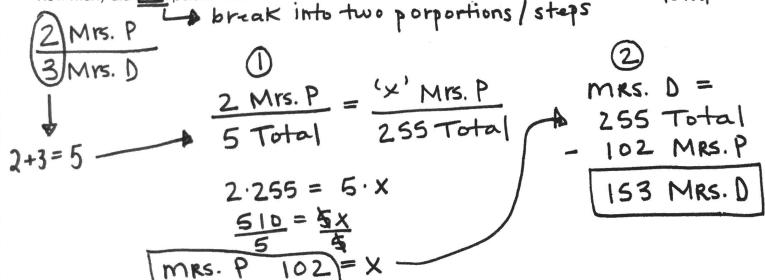
Together =

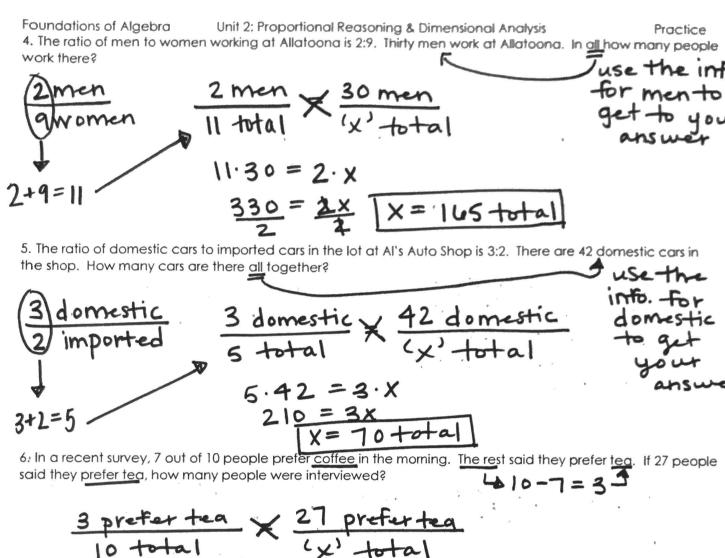
\$ \$33 | sabella

+ \$ | 121 | Shane

\$ 154 Together

3. Mrs. Petersen and Mrs. Dombrowski were folding report cards to send home to parents. The ratio of reports that Mrs. Petersen folded to Mrs. Dombrowski was 2:3. By the end of the day, they had folded 255 report cards. How many did each person fold?





7. Abbie spent  $\frac{5}{8}$  of her money and saved the rest. If she spent \$45, how much money did she have at first?