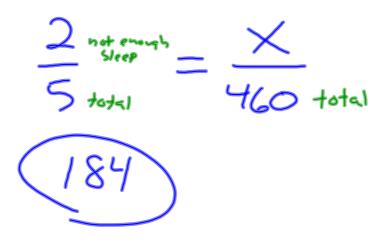
6-5 Solving Proportions

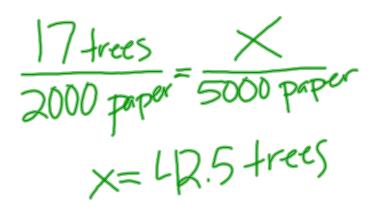
$$\begin{array}{c} x = 2 \\ 6 = 5 \end{array} \times = 2.4$$

$$\frac{3}{10} = \frac{y-2}{6}$$
 $y-2 = 1.8$

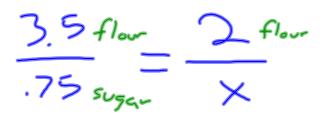
Ex. 2 2 out of 5 college students don't get enough sleep. Out of 460 college students, how many need more sleep?



Ex. 3 17 trees are saved for every 2000 pounds of paper that are recycled. How many trees would be saved if OHS recycled 5000 pounds of paper?



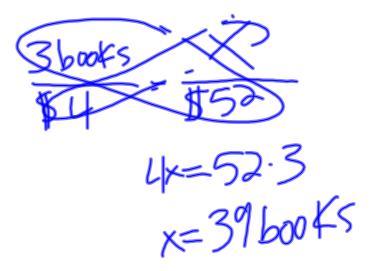
Ex. 4 A recipe for cookies calls for 3.5 cups of flour and 0.75 cups of sugar. If you have only 2 cups of flour, how much sugar should you use?



.4 cups of sugar

Ex. 5 9 out of 10 high school students have a cell phone. If there are 1035 OHS students with a cell phone, how many total students are at OHS?

Ex. 6 At a sale you can buy 3 books for \$4.00. How many books can you buy for \$52?



Ex. 7 A snow blower uses 2 gallons of gasoline to clear 1200 feet of sidewalk. How many gallons are needs to clear 3000 feet of sidewalk?

2 <u>5</u> 1200 3000