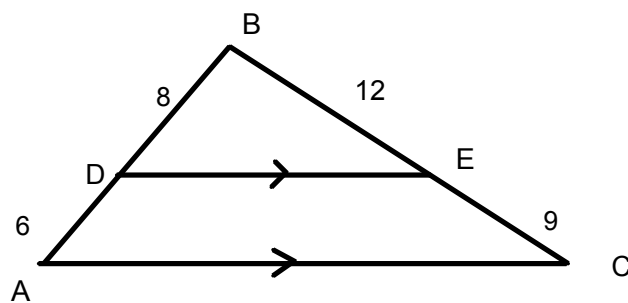


Chapter 4.5 Proportions

$$\frac{a}{b} = \frac{c}{d}$$



$$\frac{8}{6} = \frac{12}{9}$$

$$8 \cdot 9 = 12 \cdot 6$$

$$72 = 72$$

Cross Product

$$\frac{n}{3} = \frac{5}{7}$$

$$\cancel{7}n = 15$$

$$7n = 15$$

$$n = 2\frac{1}{7}$$

$$\frac{28}{g} = \frac{4}{5}$$

$$4g = 28 \cdot 5$$

$$\cancel{4}g = 140$$

$$g = 35$$

13a) The ratio of bar A to B means
A:B or $\frac{A}{B}$. 2:5 means $\frac{2}{5}$. And
we know A=10.

SO...
 $\frac{A}{B} = \frac{2}{5}$ now solve for the height
of B.

14) For lemonade the ratio of mix to drink is 8 tbs to 2 gts. Or 8:2.
So how many scoops to make 7 gts. Set up a ratio & solve.

$$17) \frac{2\frac{1}{2}}{3\frac{3}{4}} = \frac{4\frac{4}{5}}{x}$$

It's probably easier to convert all of these to decimals, then solve.

21) The ratio of men to women
is 9:1.