Class-Notes _Period_ Date_

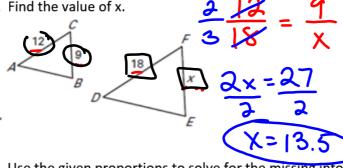
L1: Solving Ratios and Proportions (6.1, 6.2, 6.3)

Goal: Solve problems by writing and solving proportions

Example 1: Solve the proportion. CROSS - MUTIBLE

Example 2: Use properties of proportions The triangles are proportional.

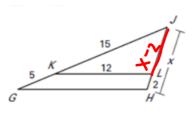
A. Find the value of x.



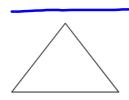
 $\frac{JL}{LH} = \frac{JK}{KG}$. Find JH and JL.

B. Use the given proportions to solve for the missing information.

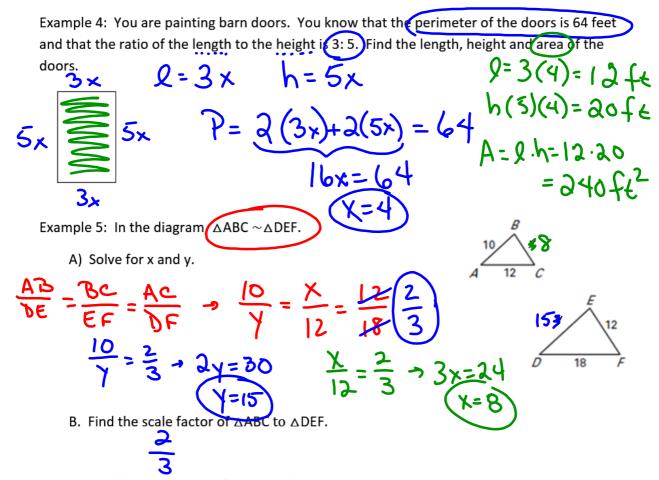




Example 3: The measures of the angles in △BCD are in the extended ratio of 2: 3: 4. Find the measures of the angles.



2x+3x+4x=180



C. Find the perimeters of \triangle ABC and \triangle DEF.

D. Find the ratio of the perimeter of $\triangle ABC$ to $\triangle DEF$. Find the ratio of the perimeter of

$$\frac{P_{\text{onse}}}{P_{\text{obse}}} = \frac{30}{45} = \frac{2}{3} \quad \frac{P_{\text{obse}}}{P_{\text{obse}}} = \frac{3}{3}$$

Example 6: Use exchange rates to convert currency.

On Jan 20, 2017, the exchange rate of Euros to American Dollars is 1 to 1.07. If you have \$500 USD for spending money for a trip and want to exchange it, how many Euros will you have?