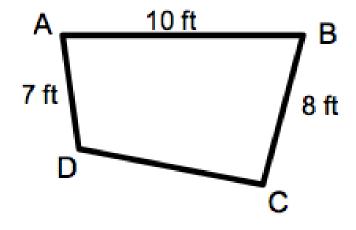
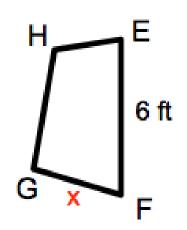
Bell Ringer: Find the measurement of x. Round to the tenths.





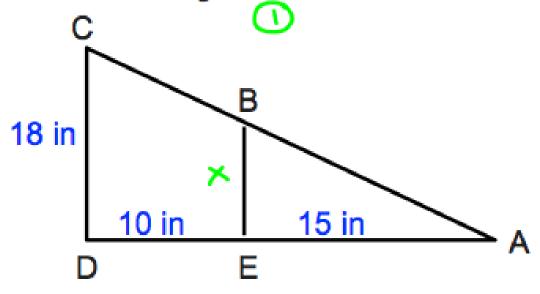
$$\frac{x}{6} = \frac{8}{10}$$
 $10x = 4.8$ 
 $x = 4.8$ 

## Similar Figures Notes Day 2

Key Point - similar figures have proportional side measurements.

Pay careful attention to the proportion set-up.

Given: Triangle ABE is similar to Triangle ACD. Find BE.



$$\frac{x}{18} = \frac{15}{35}$$
 $25x = 270$ 
 $x = 10.8$ 
 $x = 10.8$ 

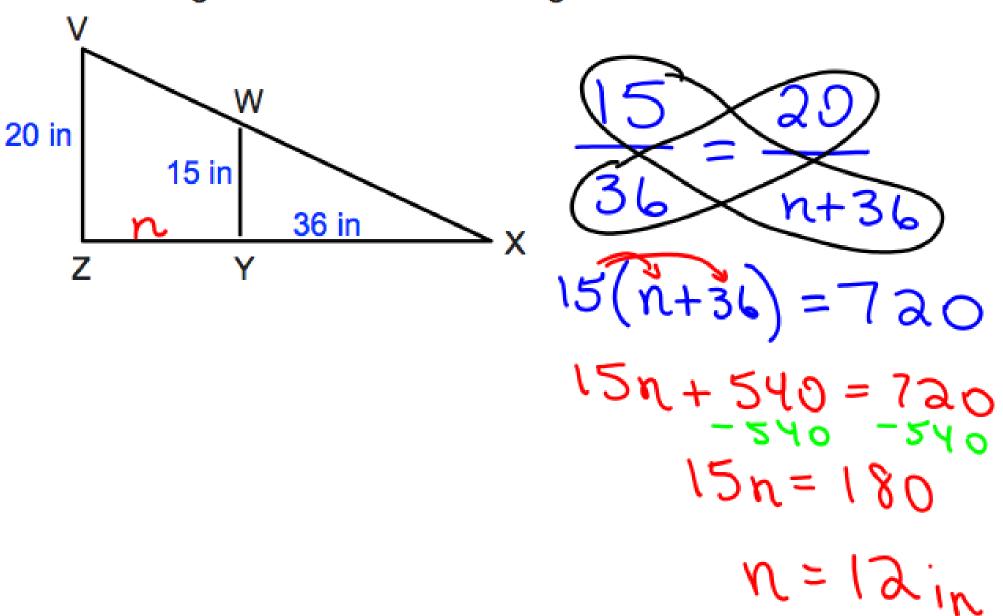
$$\frac{x}{15} = \frac{18}{35}$$
 $25x = 270$ 
 $x = 10.8$ 
 $x = 10.8$ 

Triangles A and B have side lengths at a 6:9 ratio. The hypotenuse of Triangle A is 27 meters. How long is the hypotenuse of Triangle B?

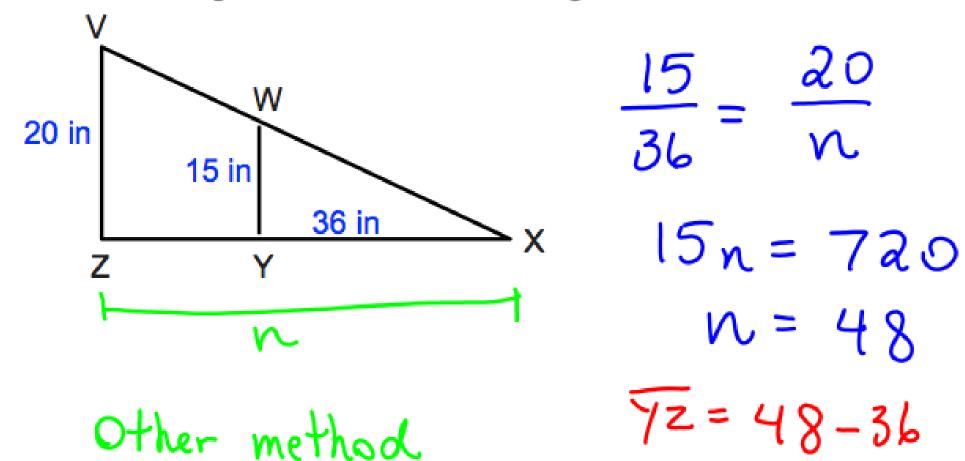
Triangle A = Triangle B 
$$\frac{6}{27} = \frac{9}{27}$$

Triangle A = Triangle B  $\frac{27}{27} = \frac{9}{27}$ 
 $\frac{\Delta A}{\Delta B} = \frac{\Delta A}{\Delta B}$ 
 $\frac{6}{9} = \frac{27}{x}$ 
 $\frac{6}{x} = 243$ 
 $\frac{6}{x} = 40.5$ 
 $\frac{6}{x} = 40.5$ 
 $\frac{6}{x} = 40.5$ 
 $\frac{6}{x} = 40.5$ 
 $\frac{6}{x} = 40.5$ 

Given: Triangle VXZ is similar to Triangle WXY. Find  $\overline{YZ}$ .



Given: Triangle VXZ is similar to Triangle WXY. Find  $\overline{YZ}$ .



= 12 in