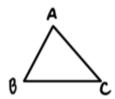
### Math 9 Notes - LG 12 Similar Triangles

Watch: https://youtu.be/pBMKGOe9Q4E



## <u>Triangles</u>





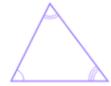
# Similar Triangles

Share 2 equal angles

OR

have 2 proportional sides



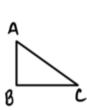


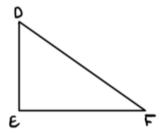




Corresponding – means matching

#### Example:





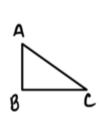
Corresponding Sides	

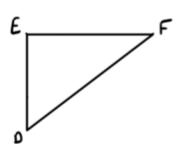
Cool Fact: ratios of corresponding sides are equal!

Can be written as ratios!

 $\frac{small\ triangle}{big\ triangle} = ---- = ----$ 

#### Orientation doesn't matter:





AND we can use ratios to calculate unknown sides!

 $\frac{small \ triangle}{big \ triangle} \qquad \frac{AB}{DE} \ = \ \frac{BC}{EF}$ 

 $\frac{small\ triangle}{hia\ triangle} \qquad \frac{AB}{DE} = \frac{AC}{DE}$