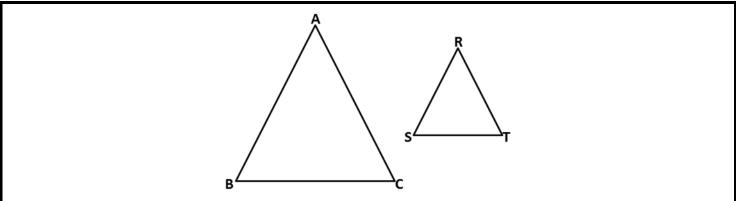
Properties of Similar Figures Notes

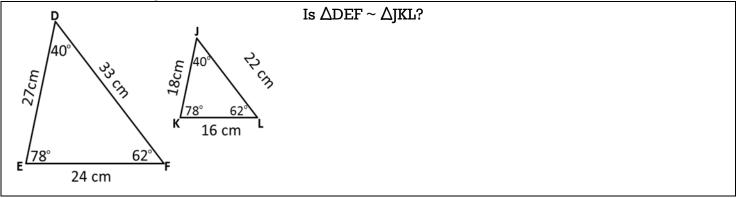


Vocabulary	Definition	In the Diagram Above
Similar Polygons	two polygons are similar if their corresponding angles are equal and their corresponding side lengths proportional. the symbol "~" means "is similar to"	
Congruent	two polygons are congruent if they are exactly the same – same shape and same size. In congruent figures, corresponding side lengths are equal and corresponding angles are equal. the symbol "≅" means "is congruent to"	
Corresponding Angles	matching angles of two or more polygons	
Corresponding Sides	matching sides of two or more polygons	
Statement of Proportionality	Used to show that corresponding sides in similar polygons have the same ratio	

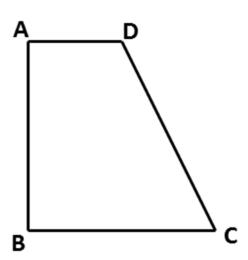
To determine if two polygons are similar, they must:

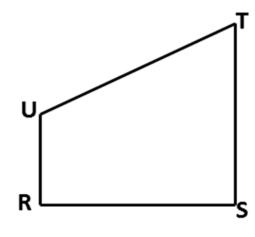
- 1) be the same shape, but different sizes
- 2) have congruent corresponding angles
- 3) have proportional corresponding sides

Determine if the figures are similar.



Pause the video and try these on your own!
Then press play and check your answers with a color pen





1) In the figure above, trapezoid ABCD \cong RSTU.

Determine the four corresponding sides:

Determine the four corresponding angles:

Determine if the figures below are similar by using a statement of proportionality.

