

### C3 Similarity - Polygons

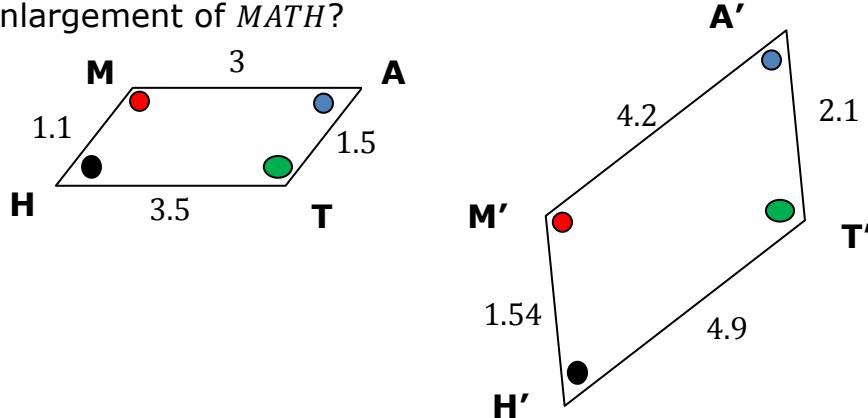
Definitions:

- Polygon: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

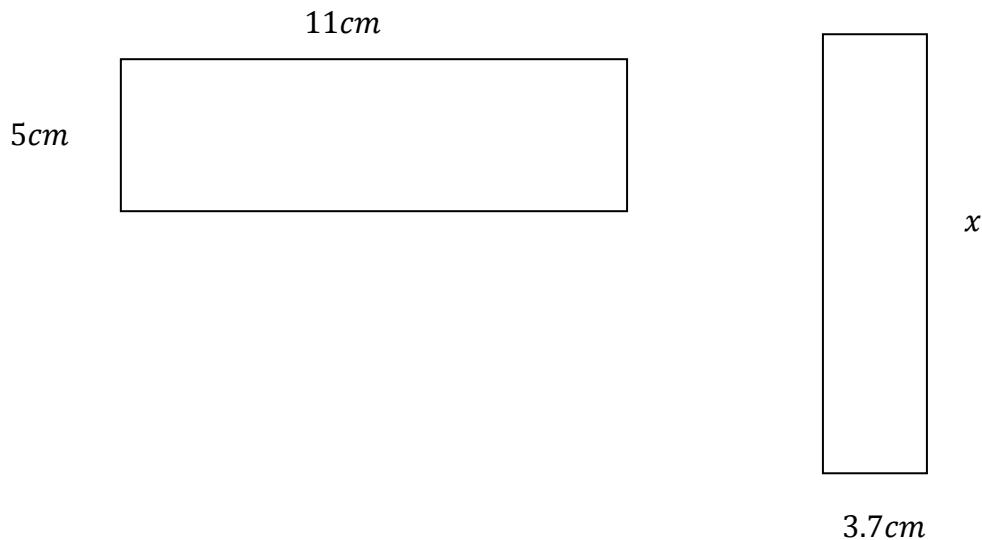
Examples:

#### **Example #1: Identify Similar Polygons**

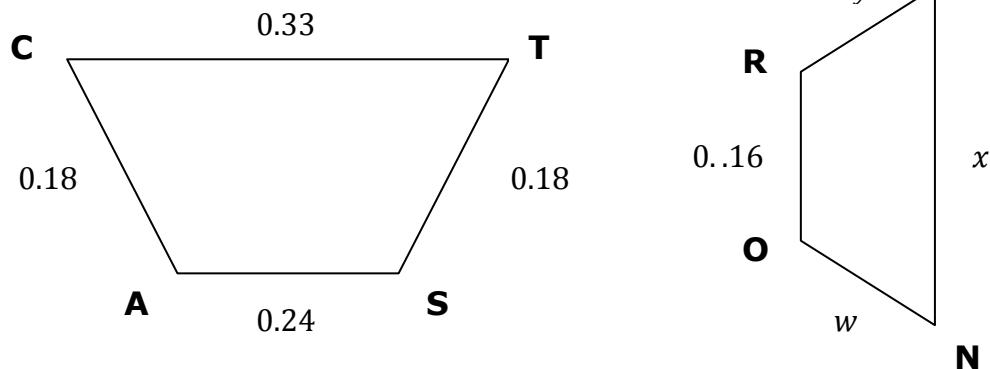
- 1) The two quadrilaterals below look similar. Is  $M'A'T'H'$  a true enlargement of  $MATH$ ?



2) The two rectangles below are similar. Find the missing side length.



3)  $CAST \sim IRON$ . Find the missing side lengths.



- 4) Prove that the two trapezoids below are similar. Then, find the length of side **CG**.

