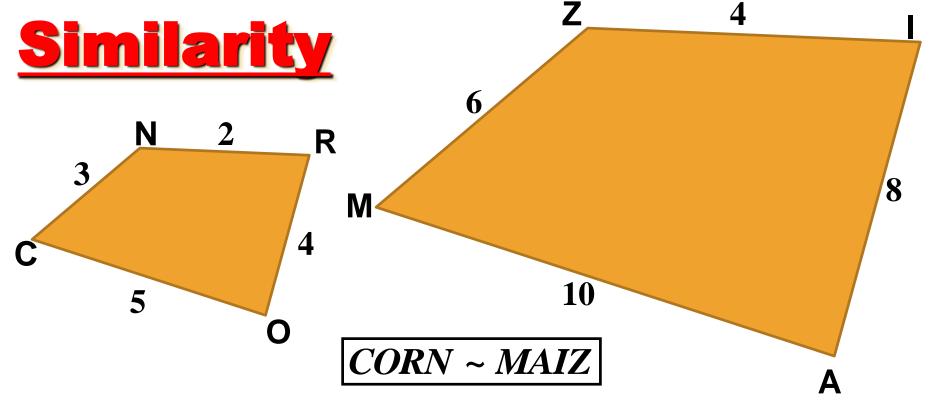
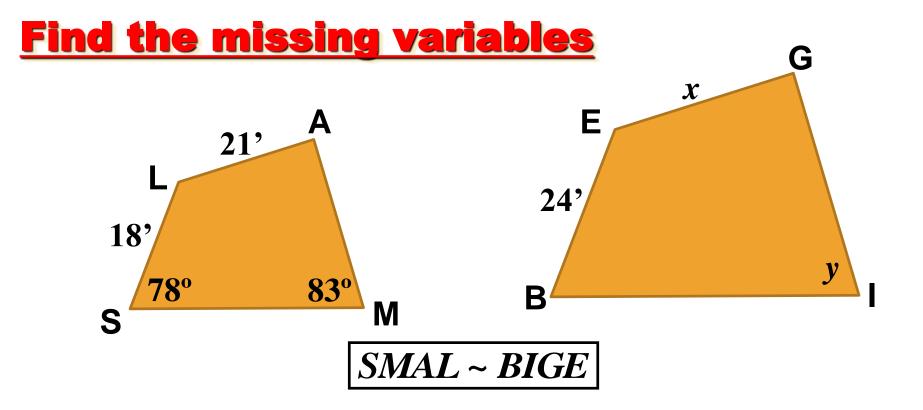
## **Z SIMILAR POLYGONS**

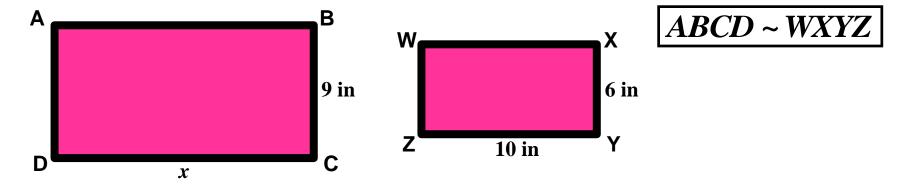


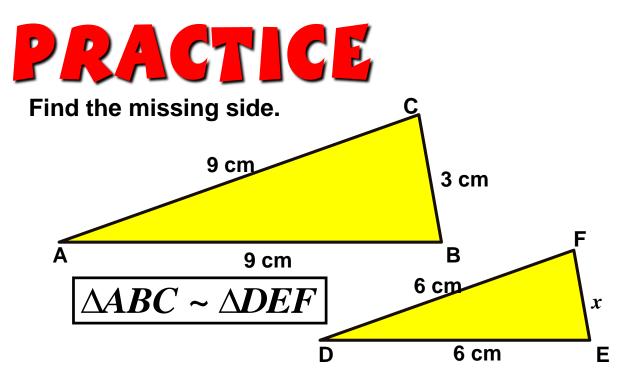
Same shape, different size
Corresponding angles are congruent

Corresponding sides are proportional





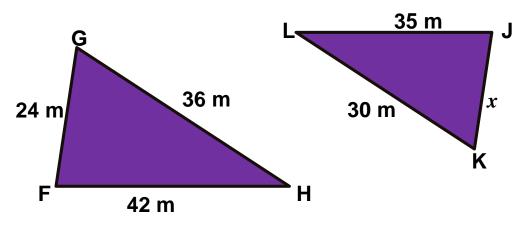


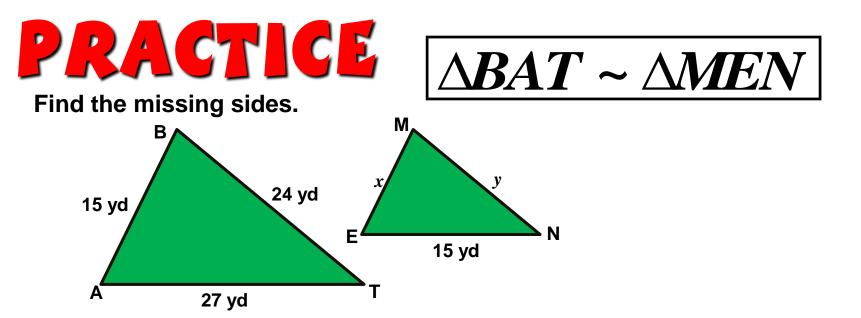


PRACTICE



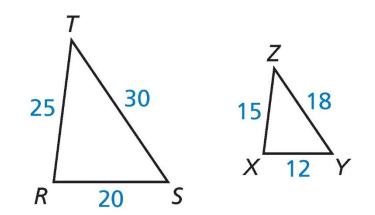
## Find the missing side.



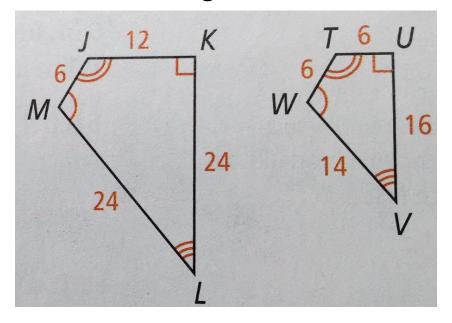


In the diagram,  $\triangle RST \sim \triangle XYZ$ .

- **a.** Find the scale factor from  $\triangle RST$  to  $\triangle XYZ$ .
- **b.** List all pairs of congruent angles.
- **c.** Write the ratios of the corresponding side lengths in a *statement of proportionality*.



Are the polygons similar? Justify your answer. If they are, write a similarity statement, and give the scale factor.



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