

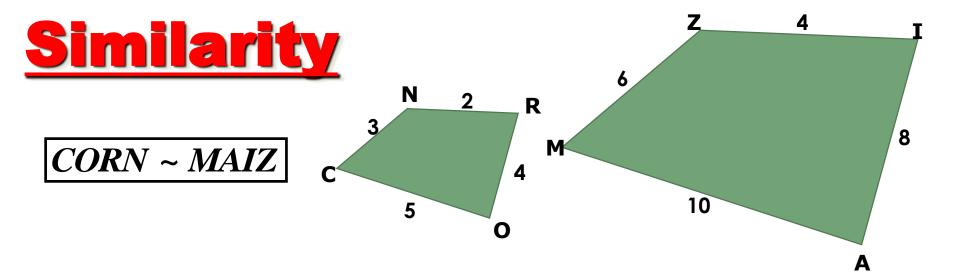
# USING SIMILAR TRIANGLES

#### **Using Cross Products to Solve Proportions**

Solve for the missing variable.

1) 
$$\frac{b}{8} = \frac{15}{20}$$

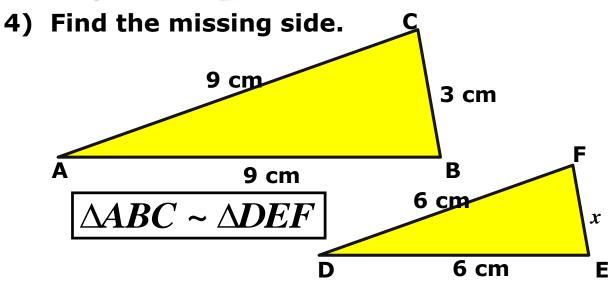
2) 
$$\frac{10}{a} = \frac{15}{18}$$



### **List 3 properties of similar shapes:**

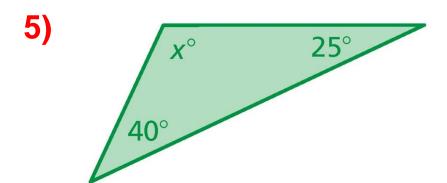
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## PRACTICE

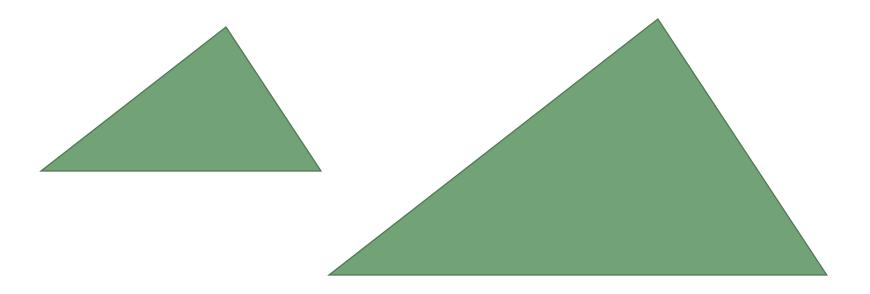


## **Review**

Find the measures of the interior angles algebraically. SHOW WORK!

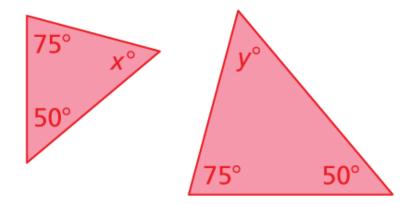


## Third Angle Rule

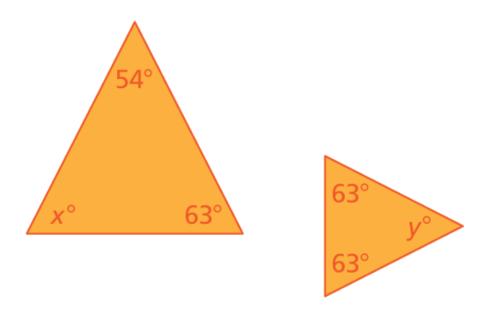


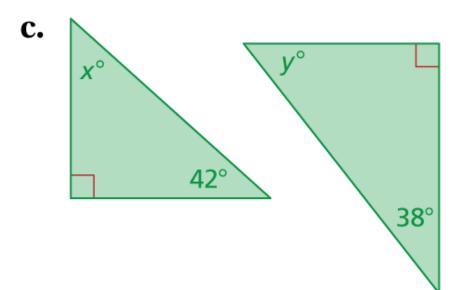
If	one triangle are congruent
to	in an other triangle, then

a.

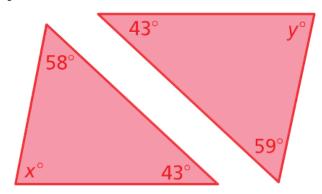


b.

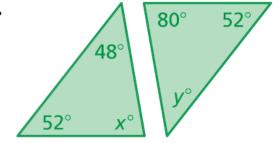




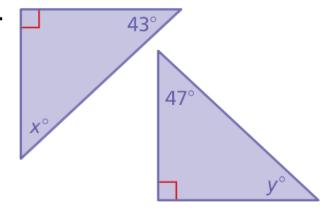
a.

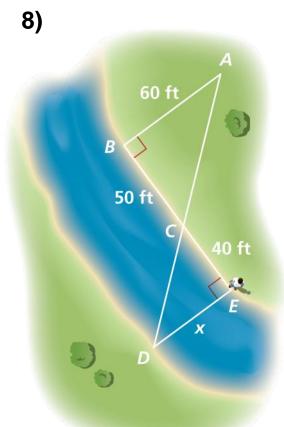


b.



C.





You plan to cross a river and want to know how far it is to the other side. You take measurements on your side of the river and make the drawing shown. (a) Explain why  $\triangle ABC$  and  $\triangle DEC$  are similar. (b) What is the distance x across the river?