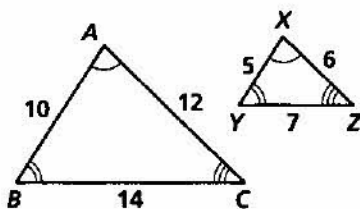


# Practice 8-2

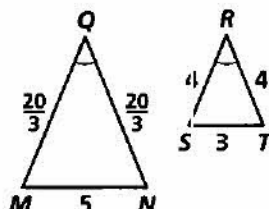
## Similar Polygons

Are the polygons similar? If they are, write a similarity statement, and give the similarity ratio. If they are not, explain.

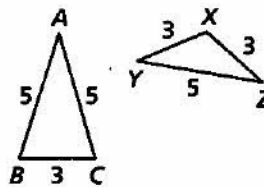
1.



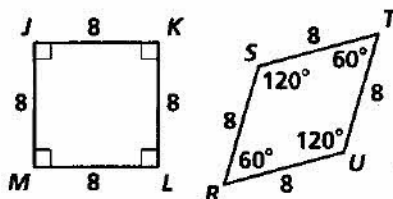
2.



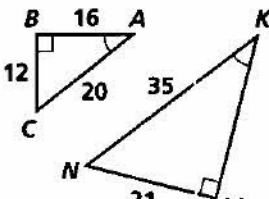
3.



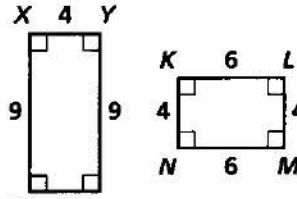
4.



5.

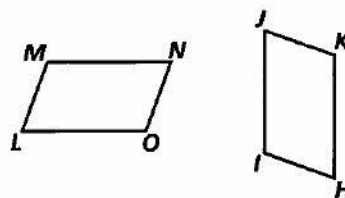


6.



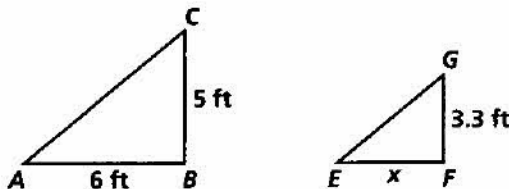
$LMNO \sim HIJK$ . Complete the proportions and congruence statements.

7.  $\angle M \cong ?$       8.  $\angle K \cong ?$       9.  $\angle N \cong ?$   
 10.  $\frac{MN}{IJ} = \frac{?}{JK}$       11.  $\frac{HK}{?} = \frac{HI}{LM}$       12.  $\frac{IJ}{MN} = \frac{HK}{?}$

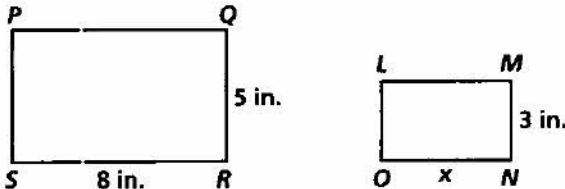


Algebra The polygons are similar. Find the values of the variables.

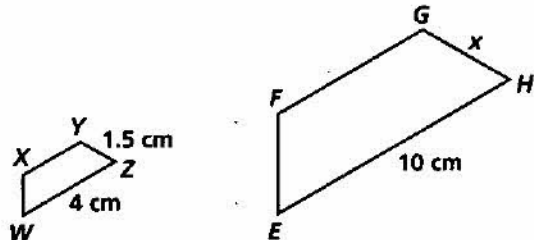
13.



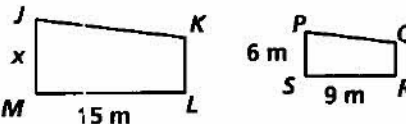
14.



15.



16.



$\triangle WXZ \sim \triangle DFG$ . Use the diagram to find the following.

17. the similarity ratio of  $\triangle WXZ$  and  $\triangle DFG$   
 18.  $m\angle Z$       19.  $DG$       20.  $GF$   
 21.  $m\angle G$       22.  $m\angle D$       23.  $WZ$

