

4-1

Practice

Form G

Congruent Figures

Each pair of polygons is congruent. Find the measures of the numbered angles.

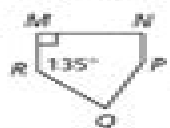
1.



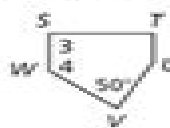
$$m\angle 1 = 110; m\angle 2 = 120$$



2.



$$m\angle 3 = 90; m\angle 4 = 135$$



3.



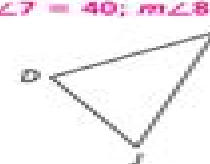
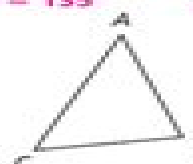
$$m\angle 5 = 140; m\angle 6 = 90; m\angle 7 = 40; m\angle 8 = 90$$

$\triangle CAT \cong \triangle JSD$. List each of the following.

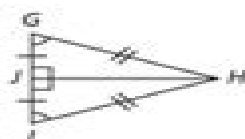
4. three pairs of congruent sides
 $CA \cong JS, AT \cong SD, CT \cong JD$
5. three pairs of congruent angles
 $\angle C \cong \angle J, \angle A \cong \angle S, \angle T \cong \angle D$

$WXYZ \cong JKLM$. List each of the following.

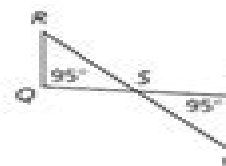
6. four pairs of congruent sides
 $WZ \cong JM, WX \cong JK, XY \cong KL, ZY \cong ML$
7. four pairs of congruent angles
 $\angle W \cong \angle J, \angle X \cong \angle K, \angle Y \cong \angle L, \angle Z \cong \angle M$



For Exercises 8 and 9, can you conclude that the triangles are congruent? Justify your answers.

8. $\triangle GHJ$ and $\triangle IHJ$


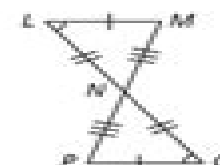
Yes; $\angle GHJ \cong \angle IHJ$ by Third Angles Thm. and by the Refl. Prop. $JH \cong JH$. Therefore, $\triangle GHJ \cong \triangle IHJ$ by the Def. of $\cong$ triangles.

9. $\triangle QRS$ and $\triangle TVS$


No; $\angle QSR \cong \angle TSV$ because vert. angles are congruent, and $\angle QRS \cong \angle TVS$ by Third Angles Thm., but none of the sides are necessarily congruent.

10. **Developing Proof** Use the information given in the diagram. Give a reason that each statement is true.

- a. $\angle L \cong \angle Q$ Given
- b. $\angle LNM \cong \angle QNP$ Vert. angles are $\cong$.
- c. $\angle M \cong \angle P$ Third Angles Thm.
- d. $\overline{LM} \cong \overline{QP}, \overline{LN} \cong \overline{QN}, \overline{MN} \cong \overline{PN}$ Given
- e. $\triangle LNM \cong \triangle QNP$ Def. of $\cong$ triangles



Practice Worksheet 6 Geometry Form G

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