

4-1

Practice Congruent Figures

Form G

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



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

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

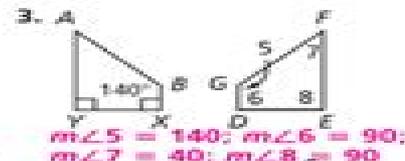
4. three pairs of congruent sides
 $CA \cong JS$, $AT \cong SD$, $CT \cong JD$
5. three pairs of congruent angles
 $\angle C \cong \angle J$, $\angle A \cong \angle S$, $\angle T \cong \angle D$



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

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

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



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



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**



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