When two figures are congruent, there is a	between their angles and sides such that
angles are congruent and	sides are congruent. For the
triangles below, you can write $\Delta ABC \cong \Delta PQR$, which is read "triangle ABC is congruent to triangle PQR." The	
notation shows the congruence and the correspondence	

Corresponding Angles C

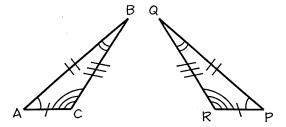
Corresponding Sides

$$\angle A \cong \angle P$$

$$\angle B \cong \angle Q$$

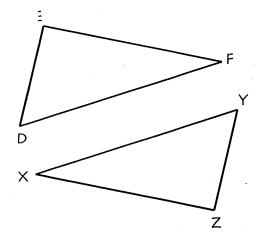
$$\overline{\mathsf{BC}}\cong\overline{\mathsf{QR}}$$

$$\angle C \cong \angle R$$

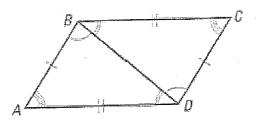


There is more than one way to write a congruence statement, but it is important to list the corresponding angles in the same order. For example, you can also write $\Delta BCA \cong \Delta QRP$. Use the order of the letters in a congruence statement to help you identify congruent parts.

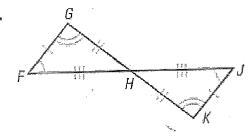
Example: The triangles shown below are congruent as they appear. Write a congruence statement. Identify all pairs of congruent corresponding parts.



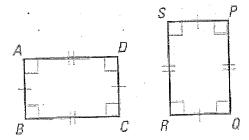
MAMING CONGRUENT FIGURES Identify any figures that can be proved congruent. Explain your reasoning. For those that can be proved congruent, write a congruence statement.



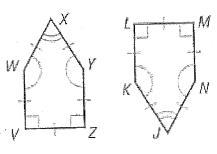
17.



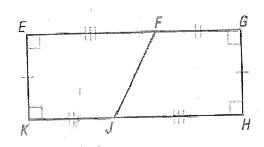
13.



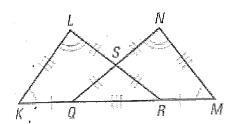
19.



20.

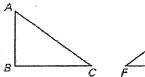


21.



For use with pages 202-210

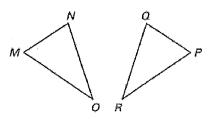
1. Given $\triangle ABC \cong \triangle DEF$, name three pairs of congruent sides.

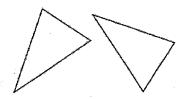




3. Copy the congruent triangles shown at the right. Then label the vertices of your triangles so that $\triangle RUV \cong \triangle TNF$. Identify all pairs of congruent corresponding angles and corresponding sides.

2. Given $\triangle MNO \cong \triangle PQR$, name three pairs of congruent angles.





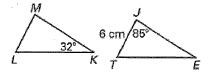
In the diagram, $\triangle MKL \cong \triangle JET$. Complete the statement.



6.
$$m \angle M =$$

8.
$$ML =$$

5.
$$\overline{MK} \cong$$



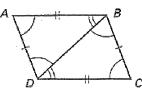
Complete this statement.

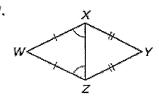
10. If $\triangle WRD \cong \triangle PLK$, then $\overline{WR} \cong \underline{\hspace{1cm}}$. 11. If $\triangle BGT \cong \triangle DSN$, then $\angle T \cong \underline{\hspace{1cm}}$.

14. If $\triangle RHK \cong \triangle WVO$, then $\triangle KRH \cong$ _____. 15. If $\triangle PMC \cong \triangle LDX$, then $\angle M \cong$

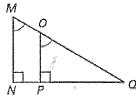
- 12. If $\triangle SVP \cong \triangle MTQ$, then $\overline{PS} \cong \underline{\hspace{1cm}}$ 13. If $\triangle JCX \cong \triangle MWP$, then $\overline{XC} \cong \underline{\hspace{1cm}}$

Identify any figures that can be proved congruent. Explain your reasoning. For those that can be proved congruent, write a congruence statement.

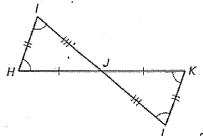




18. M



19.



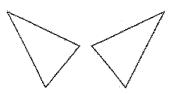


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Practice B

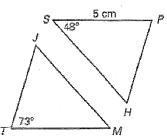
For use with pages 202–210

Copy the congruent triangles shown at the right.
 Then label the vertices of your triangles so that
 △AMT ≅ △CDN. Identify all pairs of congruent corresponding angles and corresponding sides.



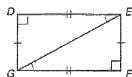
In the diagram, $\triangle TJM \cong \triangle PHS$. Complete the statement.

6.
$$MT =$$

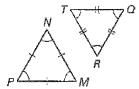


Identify any figures that can be proved congruent. Explain your reasoning. For those that can be proved congruent, write a congruence statement.

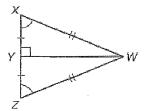




9.



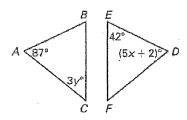
10.



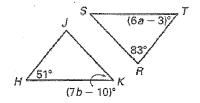


In Exercises 11 and 12, use the given information to find the indicated values.

11. Given $\triangle ABC \cong \triangle DEF$, find the values of x and y.



12. Given $\triangle HJK \cong \triangle TRS$, find the values of a and b.



13. Write a proof.

Given: $\angle ABD \cong \angle CDB$, $\angle ADB \cong \angle CBD$,

 $\overline{AD} \cong \overline{BC}, \overline{AB} \cong \overline{DC}$

Prove: $\triangle ABD \cong \triangle CDB$

