

Name _____ Pd ____ Date _____

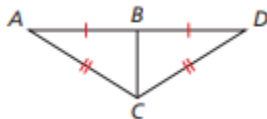
5.7 Using Congruent Triangles CYU

Use when you get it right all by yourself
S Use when you did it all by yourself, but made a silly mistake
H Use when you could do it alone with a little help from teacher or peer
G Use when you completed the problem in a group
X Use when a question was attempted but wrong (get help)
N Use when a question was not even attempted

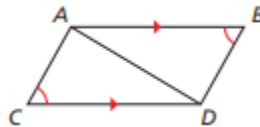
CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Reflexive POC	1, 2, 3		7
CPCTC	1 - 3	10	6
Alternate Interior Angles	2	5	
Definition of Isosceles Triangle	3	4, 5	6, 7
ASA, AAS, SSS, HL, SAS	9, 10	4, 5	6, 7
Definition of Vertical Angles	10	5	6, 7
Area of Triangles			8

Explain how to prove that the statement is true.

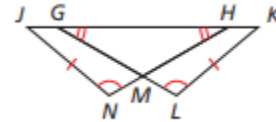
1. $\angle A \cong \angle D$



2. $\overline{AC} \cong \overline{DB}$

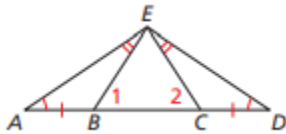


3. $\overline{GK} \cong \overline{HJ}$

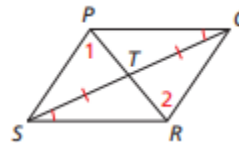


Write a plan to prove that angle one is congruent to angle two.

4.

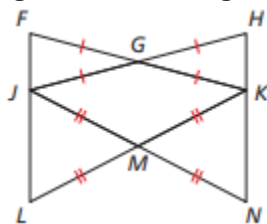


5.

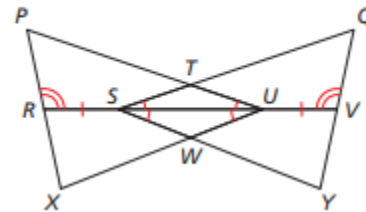


Use the information given in the diagram to write a two-column proof.

6. Prove $\overline{FL} \cong \overline{HN}$



7. Prove $\triangle PUX \cong \triangle QSY$

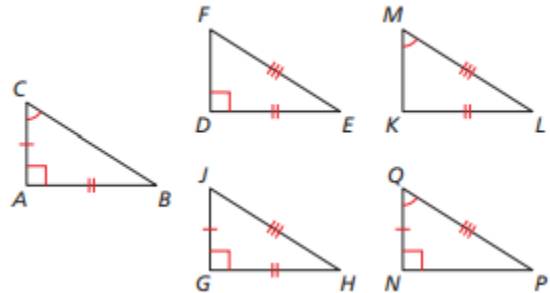


8. **HOW DO YOU SEE IT?** Use the tangram puzzle to answer the two questions.

- Which triangle(s) have an area that is twice the area of the purple triangle?
- How many times greater is the area of the orange triangle than the area of the purple triangle.



9. **ATTENDING TO PRECISION** Which triangles are congruent to $\triangle ABC$? Select all that apply.



10. **MODELING WITH MATHEMATICS** Explain how to find the distance across the canyon.



CYU Reflection: *How far can you go: basic, intermediate, or advanced?*

Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yourself.

