

Date:

5.5 Proving Triangles Congruent by SSS & HL CYU

☑ Use when you get it right all by yourself

 ${m {\it S}}$ Use when you did it all by yourself, but made a silly mistake

 ${\it H}$ 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

 \emph{X} Use when a question was attempted but wrong (get help)

₿ Use when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
SSS Congruence Theorem	1, 2	5 - 7	11
HL Congruence Theorem	3, 4		11
Proofs	8	9	10
Solving Triangles			12

Decide whether enough information is given to prove that triangles are congruent using the SSS Theorem or HL Theorem. Explain.

1. $\triangle ABC \& \triangle DBE$

3. $\triangle ABC \& \triangle FED$



Decide whether the congruence statement is true. Explain your reasoning.



Redraw the triangles so they are side by side with corresponding parts in the same position. Then write a proof.





10. Given $\overline{WX} \cong \overline{VZ}, \overline{WY} \cong \overline{VY}, \overline{YZ} \cong \overline{YX}$ **Prove** $\triangle VWX \cong \triangle WVZ$



11. **MAKING AN ARGUMENT** Your cousin says that Δ JKL is congruent to Δ LMJ by SSS Congruence Theorem. Your friend says that Δ JKL is congruent to Δ LMJ by HL Congruence Theorem. Who is correct? Explain your reasoning.



12. MATHEMATICAL CONNECTIONS Find all values of x that make the triangles congruent. Explain.



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.

