Name	Key

Date Pd

8.2 - 8.3 DAY TWO CYU

☐ Use when you get it right all by yourself

S Use when you did it all by yourself, but made a silly mistake

HUse 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)

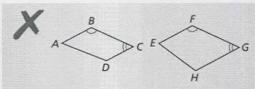
NUse when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Error Analysis	1	3	2
Modeling with Mathematics		4	5, 10
Sketch and label triangles	6		9, 10
Determining if triangles are similar	6	8	7
Using similarity to solve for x/n		6	9
Writing similarity statements		8	7, 10
Determining scale factors			10

1. ERROR ANALYSIS Describe & correct the error in using the

AA~ Theorem.

AA ~ Thm does not apply.
Not enough info.



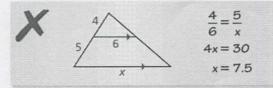
Quadrilateral ABCD ~ quadrilateral EFGH by the AA Similarity Theorem.

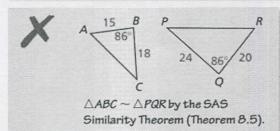
2. ERROR ANALYSIS Describe & correct the error in finding 9 not 5 the value of x.

X = 13.5

3. ERROR ANALYSIS Describe & correct the error in writing

a similarity statement. AB > RQ & BC > QP => JABC~DRAP

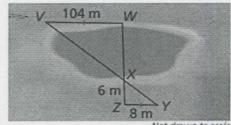




4. MODELING WITH MATHEMATICS You can measure the width of the lake using a surveying technique,

as shown in the diagram. Find the width of the lake, WX. Justify your answer with algebraic work.

78m A'S R= > D'S RN.

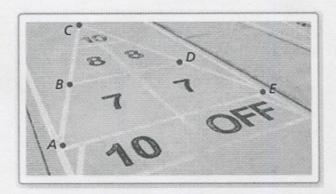


Not drawn to scale

5. MODELING WITH MATHEMATICS In the portion of the shuffleboard court shown, $\frac{BC}{AC} = \frac{BD}{AE}$

- a) What additional information do you need to show that $\Delta BCD \sim \Delta ACE$ using the SSS~ Thm?
- b) What additional information do you need to show that $\triangle BCD \sim \triangle ACE$ using the SAS~ Thm?

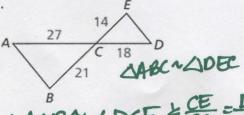
LCBD = LCAE

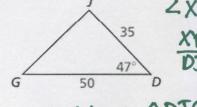


6. Sketch the triangles using the given description. Then determine whether the two triangles can be similar. The side lengths of \triangle ABC are 24, 8x, & 48, and the side lengths of \triangle DEF are 15, 25, & 6x.

Show that the triangles are similar and write a similarity statement. Explain your reasoning with algebraic work.

7. .





LAUBELDCE & CE = DC

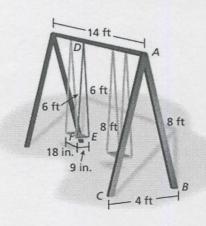
AXYZ~DOG

9. MATHEMATICAL CONNECTIONS Find the value of n that makes $\Delta DEF \sim \Delta XYZ$ when DE DE = 4, EF = 5, XY = 4(n + 1), YZ = 7n - 1, and $\angle E \cong \angle Y$. Include a sketch. n=3

10. MODELING WITH MATHEMATICS The dimensions of an actual swing set are shown. You want to create a scale model of the swing set for a dollhouse using similar triangles. Sketch a drawing of your swing set and label each side length. Write a similarity statement for each pair of similar triangles. State the scale factor you used to create the scale model.

answers may van

K= 1



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

