Name	

## 7.4 Rhombus CYU

☑ Use when you get it right all by yourself

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

 $\emph{H}$  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)

NUse when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Properties of the rhombus	1 - 6, 8 - 11	12 - 18	20
Classifying quadrilaterals as a rhombus	7	19	
Applying properties to the rhombus	8 - 11	12 - 18	20
Triangle midsegments	21 - 23		

For any rhombus JKLM, decide whether the statement is ALWAYS or SOMETIMES true. Draw a diagram and explain your reasoning.

 $1. \, \angle L \; \cong \; \angle M$ 

 $2. \angle K \cong \angle M$ 

3.  $\overline{JM} \cong \overline{KL}$ 

 $6. \angle JKM \cong \angle LKM$ 

- 4.  $\overline{JK} \cong \overline{KL}$ 5.  $\overline{JL} \cong \overline{KM}$
- 7. Classify the quadrilateral. Explain your reasoning.



Find the measures of the numbered angles in rhombus DEFG.







11.



Pd \_\_\_\_\_

Date

12. **ERROR ANALYSIS** Quadrilateral PQRS is a rhombus. Describe and correct the error in finding the value of x.



53°

The diagonals of rhombus ABCD intersect at E. Given that  $m \angle BAC = 53^\circ$ , DE = 8, and EC = 6, find the indicated measure. 13.  $m \angle DAC$  14.  $m \angle AED$  **A B** 

- 15. m∠ADC 16. DB
- 17. AE 18. AC
- 19. **MATHEMATICAL CONNECTIONS** Classify the quadrilateral. Explain your reasoning. Then find the values of x and y.



20. **MAKING AN ARGUMENT** Your friend claims a rhombus will never have congruent diagonals because it would have to be a rectangle. Is your friend correct? Explain your reasoning.

 $\overline{DE}$  is a midsegment of  $\triangle ABC$ . Find the values of x and y.



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.

