Name $\qquad$ Date $\qquad$ Pd $\qquad$

### 7.4 Rhombus CYU

$\square$ Use when you get it right all by yourself
$\boldsymbol{S}$ Use when you did it all by yourself, but made a silly mistake
$\boldsymbol{H}$ Use when you could do it alone with a little help from teacher or peer
$\boldsymbol{G}$ 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 |
| :--- | :---: | :---: | :---: |
| 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. $\overline{J M} \cong \overline{K L}$
4. $\overline{J K} \cong \bar{K} \bar{L}$
5. $\overline{J L} \cong \overline{K M}$
6. $\angle J K M \cong \angle L K M$
7. Classify the quadrilateral. Explain your reasoning.


Find the measures of the numbered angles in rhombus DEFG.
8.

9.

10.

11.

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

$$
\begin{array}{rl}
P & P \\
m \angle Q R P=m \angle S Q R \\
x^{\circ} & =37^{\circ} \\
x & =37
\end{array}
$$

The diagonals of rhombus $A B C D$ intersect at $E$. Given that $m \angle B A C=53^{\circ}, D E=8$, and $E C=6$, find the indicated measure.
13. $m \angle D A C$
15. $\mathrm{m} \angle \mathrm{ADC}$
16. DB
14. $m \angle A E D$
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.
$\overline{D E}$ is a midsegment of $\triangle A B C$. 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.


