

Name Key

Date _____ Pd _____

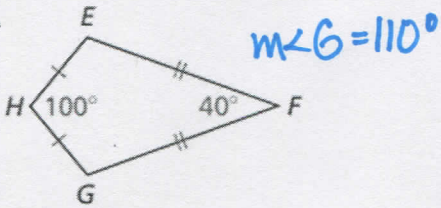
7.5 Kite CYU

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

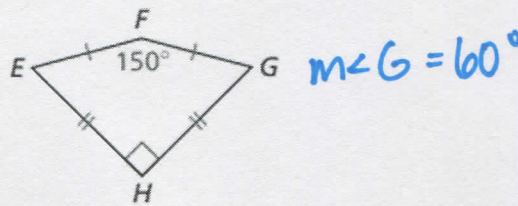
CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Applying kite properties	1 - 4	5	8, 9
Classifying quadrilaterals		6, 7	10
Describing transformations		11, 12	

Find $m\angle G$.

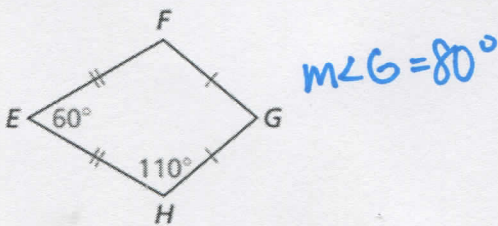
1.



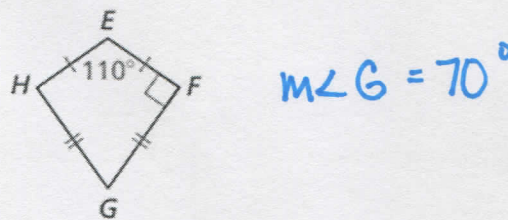
2.



3.



4.



5. ERROR ANALYSIS Describe and correct the error in finding $m\angle A$.

$\angle B \cong \angle D$

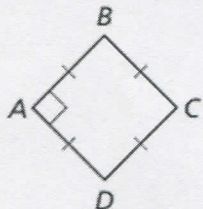
$m\angle A = 70^\circ$

X

Opposite angles of a kite are congruent, so $m\angle A = 50^\circ$.

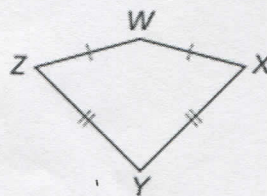
Give the most specific name for the quadrilateral. Explain your reasoning.

6.



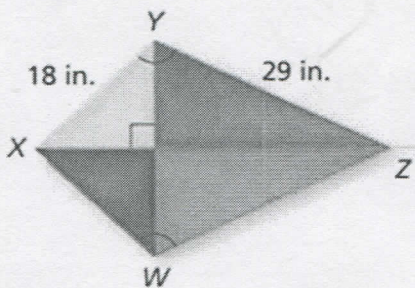
square; All sides $R \cong$
 $\frac{1}{4}$ \angle 's $R 90^\circ$

7.



Kite;
 WXYZ has 2
 pairs of
 consecutive \cong
 sides & opp.
 sides $R \neq$.

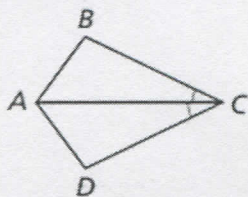
8. **PROBLEM SOLVING** You and a friend are building a kite. You need a stick to place from X to W and a stick to place from W to Z to finish constructing the frame. You want the kite to have the geometric shape of a kite. How long does each stick need to be? Explain your reasoning.



18 in; 29 in

consecutive sides $R \cong$.

9. **REASONING** Determine which pairs of segments or angles must be congruent so that you can prove that ABCD is a kite. Explain your reasoning. (There may be more than one right answer.)

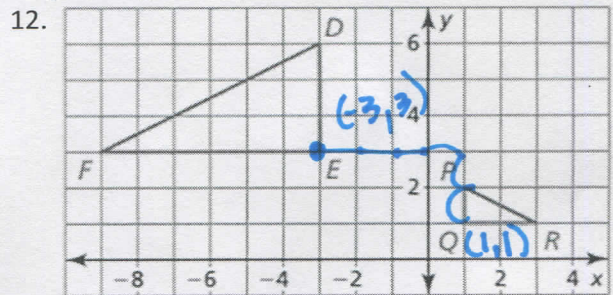
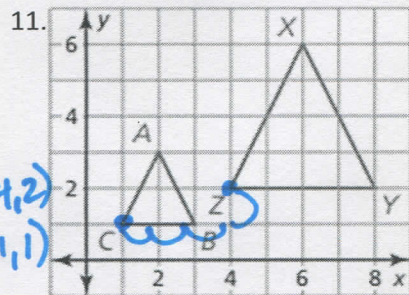


answers will vary.

10. **REASONING** Determine whether the points A(4, 5), B(-3, 3), C(-6, -13), and D(6, -2) are the vertices of a kite. Explain your reasoning.

yes; $AB = AD = \sqrt{53}$ $\frac{1}{2}$ $BC = DC = \sqrt{265}$

Describe a transformation that maps the left image to the right image.



(4, 2)
(1, 1)

$\rightarrow 3u$
up $1u$ Dilated by $(4, 2)$

R_y ; $\rightarrow 4u$; $\downarrow 2u$
Reduction $(\frac{1}{3}, \frac{1}{3})$

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.

● ● ● ● ● ● ● ●

1	2	3	4	5	6	7	8
Basic		Intermediate			Advanced		Solved ALL!

