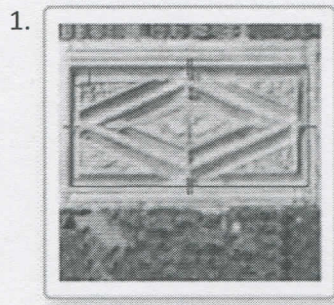


7.4 Rectangles CYU

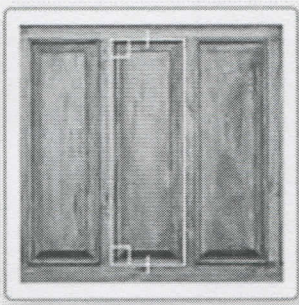
Use when you get it right all by yourself
S Use when you did it all by yourself, but made a silly mistake
H Use when you could do it alone with a little help from teacher or peer
G Use when you completed the problem in a group
X Use when a question was attempted but wrong (get help)
N Use when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Classifying quadrilaterals	1, 2		
Properties of rectangles	3 - 8	15	16 - 22
Rectangle or NOT?	9, 10		
Rectangle diagonals	11 - 14		

Classify the quadrilateral. Explain your reasoning with properties.

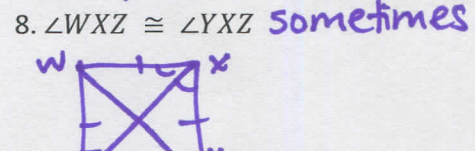
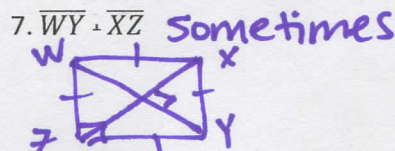
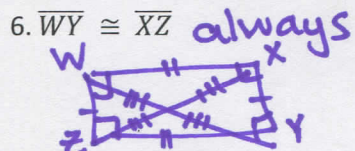
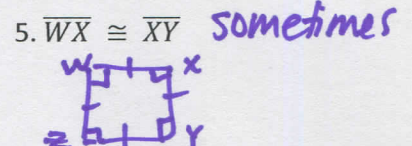
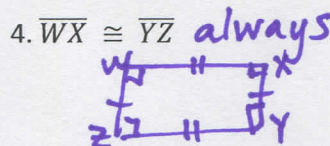
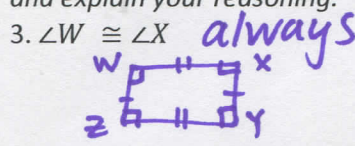


rectangle
 opp sides \cong
 $\frac{1}{2}$ \angle 's $R 90^\circ$

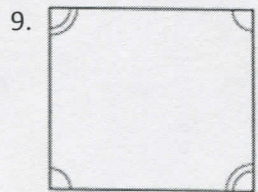


rectangle
 opp sides $R \parallel$
 $\frac{1}{2}$ \angle 's $R 90^\circ$

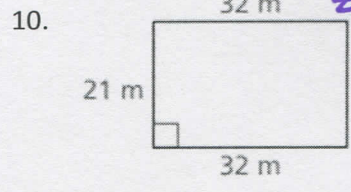
For any rectangle WXYZ, decide whether the statement is always or sometimes true. Draw a diagram and explain your reasoning.



Determine whether the quadrilateral is a rectangle.



not a rectangle



is a rectangle
 opp sides $R \cong$
 $\frac{1}{2}$ \angle 's $R 90^\circ$

Find the lengths of the diagonals of the rectangle WXYZ.

11. $WY = 6x - 7, XZ = 3x + 2$

$x = 3$
 $WY = 11 = XZ$

13. $WY = 24x - 8, XZ = -18x + 13$

$x = \frac{1}{2}$
 $WY = 4 = XZ$

12. $WY = 14x + 10, XZ = 11x + 22$

$x = 4$
 $WY = 66 = XZ$

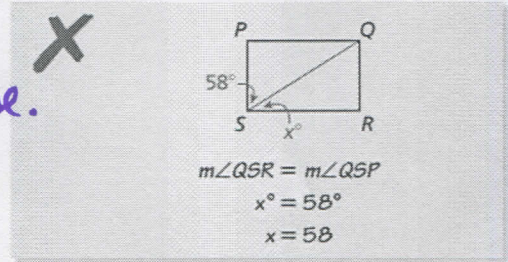
14. $WY = 16x + 2, XZ = 36x - 6$

$x = \frac{2}{5}$
 $WY = 8.4 = XZ$

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

Diagonals do not necessarily bisect opp. \angle 's of a rectangle.

$x = 32$



The diagonals of rectangle QRST intersect at P. Given that $m\angle PTS = 34^\circ$ and $QS = 10$, find the indicated measure.

16. $m\angle QTR = 56^\circ$

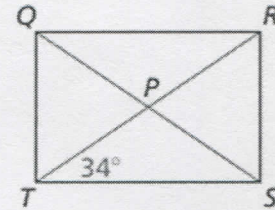
17. $m\angle QRT = 34^\circ$

18. $m\angle SRT = 56^\circ$

19. $QP = 5$

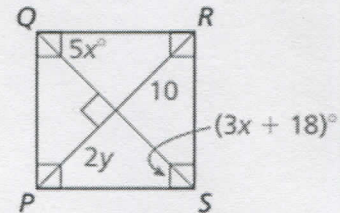
20. $RT = 10$

21. $RP = 5$



22. **MATHEMATICAL CONNECTIONS** Classify the quadrilateral. Explain your reasoning. Then find the values of x and y.

square; all 4 \angle 's $\approx 90^\circ$; diagonals are \perp ; $x = 9$; $y = 5$



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!

