7.2 Parallelogram DAY ONE CYU

☑ Use when you get it right all by yourself

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

#Use when you could do it alone with a little help from teacher or peer

 ${\it G}$ Use when you completed the problem in a group

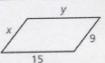
X Use when a question was attempted but wrong (get help)

NUse when a question was not even attempted

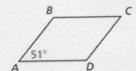
BASIC	INTERMEDIATE	ADVANCED
1, 2, 3, 4	5, 6	7, 8, 9
14 - 16		
		10 - 13
	1, 2, 3, 4	1, 2, 3, 4 5, 6

1. Find the value of each variable in the parallelogram.

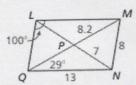
$$X = 9, y = 15$$



2. Find the measure of the indicated angle in the parallelogram. Find $m \angle B$.



Find the indicated measure in parallelogram LMNQ. Explain your reasoning in words or with work.



Find the value of each variable in the parallelogram.

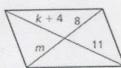
5



M = 35

$$n = 110$$

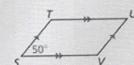
6.



K=7

7. ERROR ANALYSIS Describe and correct the error in using properties of parallelograms.





Because quadrilateral STUV is a parallelogram, $\angle S \cong \angle V$. So, $m \angle V = 50^\circ$.

consecutive is R supp. m< S + m<V = 180

m = 130°

8. Find the coordinates of the intersection of the diagonals of the parallelogram with given vertices: W(-2, 5), X(2, 5), Y(4, 0), & Z(0, 0).

(1,2.5)

9. Three vertices of parallelogram DEFG are given. Find the coordinates of the remaining vertex. D(0, 2), E(-1, 5), & G(4, 0)

F (3,3)

10. **MATHEMATICAL CONNECTIONS** Find the measure of each angle if the measure of one interior angle of a parallelogram is 0.25 times the measure of another angle.

36°; 144°

11. **MAKING AN ARGUMENT** In quadrilateral ABCD, $m \angle B = 124^{\circ}$, $m \angle A = 56^{\circ}$, and $m \angle C = 124^{\circ}$. Your friend claims quadrilateral ABCD could be a parallelogram. Is your friend correct? Explain your reasoning.

no, answers may vary

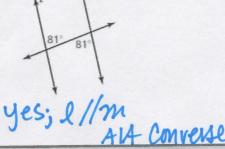
12. **ATTENDING TO PRECISION** $\angle J$ & $\angle K$ are consecutive angles in a parallelogram, $m\angle J = (3x + 7)^\circ$, and $m\angle K = (5x - 11)^\circ$. Find the measure of each angle.

76°; 104°

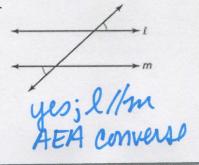
13. **PROBLEM SOLVING** In parallelogram LMNP, the ratio of LM to MN is 4:3. Find LM when the perimeter of parallelogram LMNP is 28.

Determine whether lines I and m are parallel. Justify your answer.

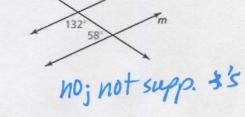
14.



15



16.



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.

