

Name _____ Date _____ Pd _____

7.4 Square 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
Vocabulary	1		
Classifying quadrilaterals	2	3 - 8	15 - 22
Applying properties of squares	9 - 14	23, 24	
Distance formula			15 - 16
Perpendicular slopes			15 - 16

1. **VOCABULARY** What is another name for an equilateral rectangle?

2. Classify the quadrilateral. Explain your reasoning.

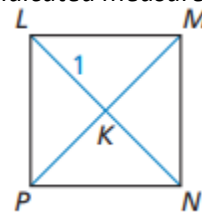


Name each quadrilateral – parallelogram, rectangle, rhombus, or square – for which the statement is always true.

- | | |
|-------------------------------------|--|
| 3. It is equiangular. | 4. It is equiangular and equilateral. |
| 5. The diagonals are perpendicular. | 6. Opposite sides are congruent. |
| 7. The diagonals bisect each other. | 8. The diagonals bisect opposite angles. |

The diagonals of square LMNP intersect at K. Given that $LK = 1$, find the indicated measure.

- | | |
|-------------------|-------------------|
| 9. $m\angle MKN$ | 10. $m\angle LMK$ |
| 11. $m\angle LPK$ | 12. KN |
| 13. LN | 14. MP |



Decide whether parallelogram JKLM is a rectangle, a rhombus, or a square. Give all names that apply. Explain your reasoning.

15. J(-4, 2), K(0, 3), L(1, -1), M(-3, -2)

16. J(5, 2), K(2, 5), L(-1, 2), M(2, -1)

Complete each statement with ALWAYS, SOMETIMES, or NEVER. Explain your reasoning.

17. A square is _____ a rhombus.

18. A rectangle is _____ a square.

19. A rectangle _____ has congruent diagonals.

20. The diagonals of a square _____ bisect its angles.

21. A rhombus _____ has four congruent angles.

22. A rectangle _____ has perpendicular diagonals.

23. **ABSTRACT REASONING** Will a diagonal of a square ever divide the square into two equilateral triangles? Explain your reasoning.

24. **REASONING** Are all rhombuses similar? Are all squares similar? Explain your reasoning.

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.

