

Classifying Quadrilaterals

Name: _____

Date: _____

Score: _____ / 24

Q Quick Review

A **quadrilateral** is any shape with 4 straight sides and 4 angles. There are several special kinds. A **parallelogram** has two pairs of parallel sides. A **rectangle** is a parallelogram with 4 right angles. A **square** is a rectangle with all 4 sides equal — it has 4 right angles *and* 4 equal sides. A **rhombus** has 4 equal sides but its angles are not always right angles. A **trapezoid** has *exactly one* pair of parallel sides. Look carefully at the sides and angles to give each shape its best, most exact name.

◇ **Example:** A quadrilateral has exactly one pair of parallel sides. The other two sides are not parallel. What is the name of this shape?

⇒ It has 4 sides, so it is a quadrilateral. Now look at the parallel sides. A parallelogram needs *two* pairs of parallel sides, but this shape has only *one* pair. A quadrilateral with exactly one pair of parallel sides is called a trapezoid.

Answer: trapezoid

PRACTICE

Give the best name for each quadrilateral described.

1. A quadrilateral with 4 right angles and 4 equal sides

2. A quadrilateral with exactly one pair of parallel sides

3. A quadrilateral with 4 right angles, opposite sides equal

4. A quadrilateral with 2 pairs of parallel sides _____
5. A quadrilateral with 4 equal sides, no right angles

6. How many sides does every quadrilateral have?

7. A shape with 4 equal sides and 4 right angles

8. A window with 4 right angles where length \neq width

9. A quadrilateral with one pair of parallel sides only

10. A slanted shape with 4 equal sides like a diamond

11. How many angles does a quadrilateral have?

12. A tabletop with 4 square corners and equal opposite sides

13. A floor tile with 4 equal sides and 4 square corners

14. A quadrilateral whose opposite sides are both parallel

15. A purse flap with exactly one pair of parallel sides

16. A kite-shaped sign with 4 equal sides, angles not 90°

17. A book cover with 4 right angles, length longer than width

18. A checkerboard space with 4 equal sides and right angles

19. A quadrilateral with two pairs of parallel sides and no right angle

20. A table shaped with only the top and bottom edges parallel

◆ Word Problems

21. Ben is looking at a window that has 4 right angles. Its opposite sides are equal, but the window is taller than it is wide. What is the best name for the window's shape? _____
22. A picnic blanket has 4 sides that are all the same length and 4 square corners. What is the most exact name for the blanket's shape? _____



23. Mia draws a quadrilateral where the top and bottom sides are parallel, but the left and right sides are not parallel. What shape did Mia draw? _____

24. A street sign has 4 equal sides, but its corners are not right angles — it looks like a tilted diamond. What is the name of this shape? _____



Answer Keys

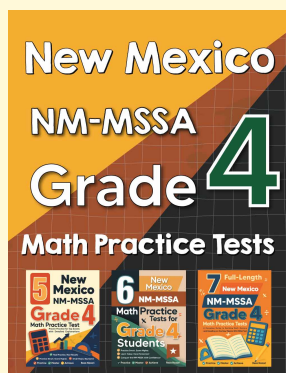
- | | |
|------------------|-------------------|
| 1. square | 13. square |
| 2. trapezoid | 14. parallelogram |
| 3. rectangle | 15. trapezoid |
| 4. parallelogram | 16. rhombus |
| 5. rhombus | 17. rectangle |
| 6. 4 | 18. square |
| 7. square | 19. parallelogram |
| 8. rectangle | 20. trapezoid |
| 9. trapezoid | 21. a rectangle |
| 10. rhombus | 22. a square |
| 11. 4 | 23. a trapezoid |
| 12. rectangle | 24. a rhombus |

Step-by-Step Explanations

- | | |
|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| 1. Four right angles and four equal sides together make a square. | 13. Equal sides and square corners together make a square. |
| 2. Exactly one pair of parallel sides means the shape is a trapezoid. | 14. Two pairs of parallel opposite sides makes a parallelogram. |
| 3. Four right angles with equal opposite sides describes a rectangle. | 15. Exactly one pair of parallel sides means the flap is a trapezoid. |
| 4. Two pairs of parallel sides makes the shape a parallelogram. | 16. Four equal sides without right angles describes a rhombus. |
| 5. Four equal sides but no right angles describes a rhombus. | 17. Right angles with a longer length than width make it a rectangle. |
| 6. By definition, every quadrilateral has exactly 4 sides. | 18. Equal sides plus right angles always means a square. |
| 7. Equal sides plus right angles always points to a square. | 19. Two pairs of parallel sides, even without right angles, is a parallelogram. |
| 8. Four right angles with a longer length than width is a rectangle. | 20. Only one pair of parallel sides makes the table a trapezoid. |
| 9. Just one pair of parallel sides makes it a trapezoid. | 21. Four right angles with equal opposite sides, but a length different from the width, describes a rectangle. |
| 10. A diamond shape with four equal sides is a rhombus. | 22. Four equal sides plus four right-angle corners make the shape a square. |
| 11. A quadrilateral has 4 sides and 4 angles, one at each corner. | 23. Exactly one pair of parallel sides means the shape is a trapezoid. |
| 12. Four square corners with matching opposite sides describes a rectangle. | 24. Four equal sides without right angles describes a rhombus. |



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