

# 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.

- A quadrilateral with 4 right angles and 4 equal sides  
\_\_\_\_\_
- A quadrilateral with exactly one pair of parallel sides  
\_\_\_\_\_
- A quadrilateral with 4 right angles, opposite sides equal  
\_\_\_\_\_
- A quadrilateral with 2 pairs of parallel sides \_\_\_\_\_
- A quadrilateral with 4 equal sides, no right angles  
\_\_\_\_\_
- How many sides does every quadrilateral have?  
\_\_\_\_\_
- A shape with 4 equal sides and 4 right angles  
\_\_\_\_\_
- A window with 4 right angles where length  $\neq$  width  
\_\_\_\_\_
- A quadrilateral with one pair of parallel sides only  
\_\_\_\_\_
- A slanted shape with 4 equal sides like a diamond  
\_\_\_\_\_
- How many angles does a quadrilateral have?  
\_\_\_\_\_
- A tabletop with 4 square corners and equal opposite sides  
\_\_\_\_\_
- A floor tile with 4 equal sides and 4 square corners  
\_\_\_\_\_
- A quadrilateral whose opposite sides are both parallel  
\_\_\_\_\_
- A purse flap with exactly one pair of parallel sides  
\_\_\_\_\_
- A kite-shaped sign with 4 equal sides, angles not  $90^\circ$   
\_\_\_\_\_
- A book cover with 4 right angles, length longer than width  
\_\_\_\_\_
- A checkerboard space with 4 equal sides and right angles  
\_\_\_\_\_
- A quadrilateral with two pairs of parallel sides and no right angle  
\_\_\_\_\_
- A table shaped with only the top and bottom edges parallel  
\_\_\_\_\_

## ◆ Word Problems

- 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? \_\_\_\_\_
- 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

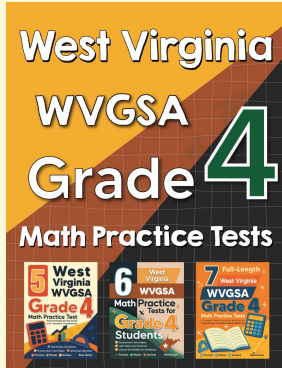
- |                  |                   |
|------------------|-------------------|
| 1. square        | 13. square        |
| 2. trapezoid     | 14. parallelogram |
| 3. rectangle     | 15. trapezoid     |
| 4. parallelogram | 16. rhombus       |
| 5. rhombus       | 17. rectangle     |
| 6. 4             | 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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