Classifying Quadrilaterals

Name: _____	Date: _____	Score: _____ / 24

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? _____

Scan Me

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

Step-by-Step Explanations

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

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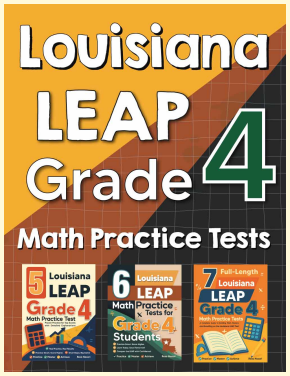

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