

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°

- 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

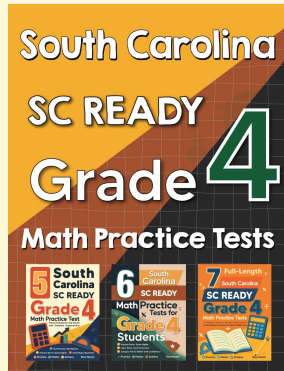
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| 1. <input type="text" value="square"/> | 13. <input type="text" value="square"/> |
| 2. <input type="text" value="trapezoid"/> | 14. <input type="text" value="parallelogram"/> |
| 3. <input type="text" value="rectangle"/> | 15. <input type="text" value="trapezoid"/> |
| 4. <input type="text" value="parallelogram"/> | 16. <input type="text" value="rhombus"/> |
| 5. <input type="text" value="rhombus"/> | 17. <input type="text" value="rectangle"/> |
| 6. <input type="text" value="4"/> | 18. <input type="text" value="square"/> |
| 7. <input type="text" value="square"/> | 19. <input type="text" value="parallelogram"/> |
| 8. <input type="text" value="rectangle"/> | 20. <input type="text" value="trapezoid"/> |
| 9. <input type="text" value="trapezoid"/> | 21. <input type="text" value="a rectangle"/> |
| 10. <input type="text" value="rhombus"/> | 22. <input type="text" value="a square"/> |
| 11. <input type="text" value="4"/> | 23. <input type="text" value="a trapezoid"/> |
| 12. <input type="text" value="rectangle"/> | 24. <input type="text" value="a rhombus"/> |

Step-by-Step Explanations

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