

# Grade 5 · Classifying Two-Dimensional Figures

## · Quiz

Common Core 5.G.B.3, 5.G.B.4 · mathovore.fr

Name: \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_ Score: \_\_\_\_\_

Answer these 10 multiple-choice questions on classifying triangles and quadrilaterals (5.G.B.3 and 5.G.B.4). Check sides, parallel lines, and angles before you choose, then read the explanation after each question.

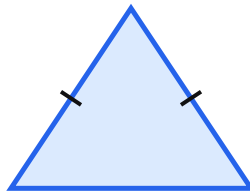
**Grade 5 Common Core: 5.G.B.3 · 5.G.B.4**

### Questions

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#### Question 1

What kind of triangle is this, by its sides?



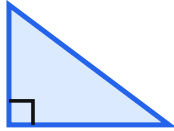
**Triangle**

Two sides are marked equal.

- A. Isosceles
- B. Equilateral
- C. Scalene
- D. Right

#### Question 2

What kind of triangle is this, by its angles?



### Triangle

A square marks the corner.

- A. Acute
- B. Obtuse
- C. Right
- D. Equilateral

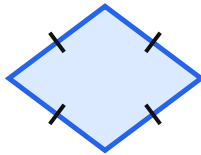
### Question 3

A triangle has angles of  $25^\circ$ ,  $110^\circ$ , and  $45^\circ$ . How is it classified by its angles?

- A. Acute
- B. Obtuse
- C. Right
- D. Equilateral

### Question 4

What is the most specific name for this shape?



### Quadrilateral

All four sides are equal.

- A. Square
- B. Rectangle
- C. Rhombus
- D. Trapezoid

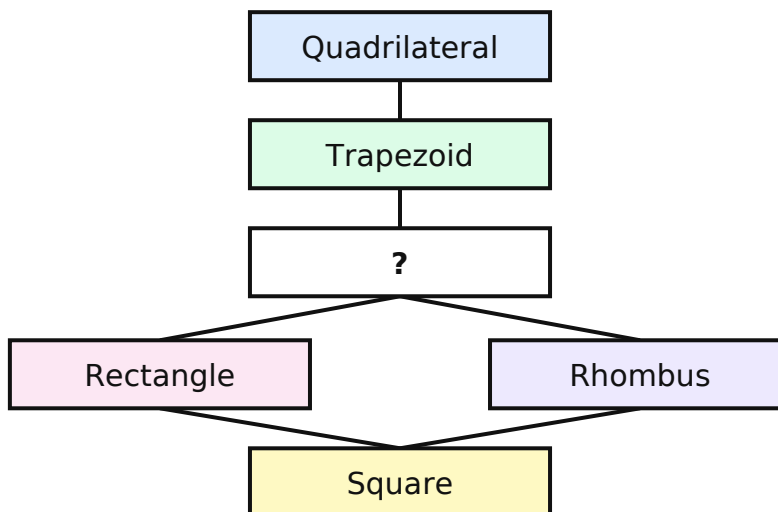
### Question 5

Which statement is true?

- A. Every square is a rectangle.
- B. Every rectangle is a square.
- C. Every rhombus is a square.
- D. Every parallelogram is a rectangle.

### Question 6

Which shape belongs in the box marked ? in the diagram?



Which shape goes in the box marked ?

- A. Rhombus
- B. Rectangle
- C. Pentagon
- D. Parallelogram

### Question 7

Which shape has exactly one pair of parallel sides?

- A. Trapezoid
- B. Rectangle
- C. Rhombus
- D. Parallelogram

### Question 8

Which attribute do all rectangles and all rhombuses share?

- A. All four sides are equal
- B. Both pairs of opposite sides are parallel
- C. All four angles are right angles
- D. Exactly one pair of parallel sides

### Question 9

A quadrilateral has four equal sides and four right angles. Which names fit?

- A. Square only
- B. Square and rectangle only
- C. Rhombus and trapezoid only
- D. Square, rectangle, and rhombus

### Question 10

A triangle has three sides that each measure 7 cm. Which statement is true?

- A. It is equilateral but not isosceles
- B. It is equilateral and isosceles
- C. It is scalene
- D. It is isosceles but not equilateral

## Answer key

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1. **A** – Two tick marks match, so two sides are equal. Equilateral needs all three equal.
2. **C** – The small square shows a 90 degree angle, so the triangle is a right triangle.
3. **B** – One angle is greater than 90 degrees, so it is obtuse.
4. **C** – Four equal sides and parallel opposite sides make a rhombus. It has no right angles, so it is not a square.
5. **A** – A square has four right angles and opposite sides parallel. The other statements reverse the relationship.
6. **D** – Rectangles and rhombuses are both special parallelograms, so Parallelogram goes above them.
7. **A** – Rectangles, rhombuses, and parallelograms all have two pairs of parallel sides.
8. **B** – Both are parallelograms. Equal sides belong only to rhombuses, and right angles belong only to rectangles.
9. **D** – A square is also a rectangle and a rhombus, because it has every attribute of both.
10. **B** – Three equal sides make it equilateral, and an isosceles triangle needs at least two equal sides.

### Remember:

- Triangles are classified by sides (equilateral, isosceles, scalene) and by angles (acute, right, obtuse).
- A parallelogram has both pairs of opposite sides parallel; a trapezoid has at least one pair.
- A rectangle is a parallelogram with four right angles, and a rhombus is a parallelogram with four equal sides.
- A square is both a rectangle and a rhombus, so it has every attribute of both.
- Attributes of a category belong to all shapes in its subcategories.