

# Grade 5 · Classifying Two-Dimensional Figures · Test

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

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

This 45-minute test checks how well you classify two-dimensional figures (5.G.B.3 and 5.G.B.4). It has nine questions worth 20 points. Write the most specific name unless the question asks for more.

## Test information

- **Grade:** Grade 5
- **Chapter:** Classifying Two-Dimensional Figures
- **Common Core:** 5.G.B.3, 5.G.B.4
- **Time:** 45 minutes
- **Total:** 20 points (Question 1: 2 pts; Question 2: 2 pts; Question 3: 2 pts; Question 4: 2 pts; Question 5: 2 pts; Question 6: 3 pts; Question 7: 3 pts; Question 8: 3 pts; Question 9: 1 pt)

## Question 1: Triangles by sides (2 points)

Classify each triangle by its sides.

- Sides of 9 cm, 9 cm, and 4 cm (*1 point*)
- Sides of 5 cm, 6 cm, and 7 cm (*1 point*)

## Question 2: Triangles by angles (2 points)

Classify each triangle by its angles.

- Angles of  $90^\circ$ ,  $30^\circ$ , and  $60^\circ$  (*1 point*)
- Angles of  $120^\circ$ ,  $30^\circ$ , and  $30^\circ$  (*1 point*)

## Question 3: Name the figures (2 points)

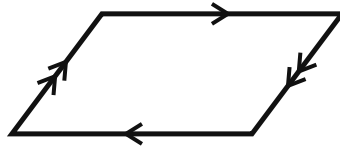


**Figure 1**

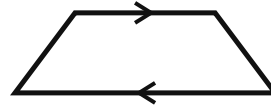


**Figure 2**

Arrows mark parallel sides.

- Name Figure 1. (1 point)
- Name Figure 2. (1 point)

#### Question 4: Properties (2 points)

- How many pairs of parallel sides does a rectangle have? (1 point)
- Write two attributes that every rhombus has. (1 point)

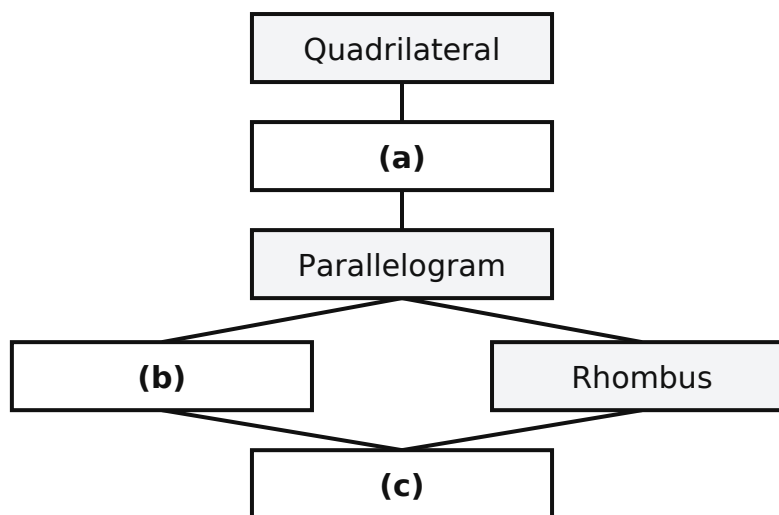
#### Question 5: True or false (2 points)

Write true or false and give a reason.

- Every square is a rhombus. (1 point)
- Every parallelogram is a rectangle. (1 point)

#### Question 6: Hierarchy (3 points)

Write the name that belongs in each empty box.



Complete the hierarchy.

- Box (a) (1 point)

- b. Box (b) (1 point)
- c. Box (c) (1 point)

### Question 7: Every name that fits (3 points)

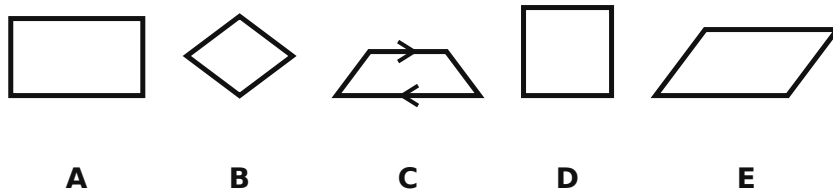
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A quadrilateral has four right angles and four sides that are each 7 inches long.

- a. What is its most specific name? (1 point)
- b. Name two other categories it belongs to. (1 point)
- c. Explain why it is a rectangle. (1 point)

### Question 8: Sort the quadrilaterals (3 points)

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Shapes A to E.

- a. List every parallelogram. (1 point)
- b. Which shape is a rhombus but not a square? (1 point)
- c. Which shape is a trapezoid but not a parallelogram? (1 point)

### Question 9: Find the error (1 point)

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Liam says that every trapezoid is a parallelogram. Describe a trapezoid that shows he is wrong.