

Grade 5 - Classifying Two-Dimensional Figures - Test

Common Core 5.G.B.3, 5.G.B.4 · maths-pdf.fr/en/

Name: _____ Class: _____ Date: ____/____/____

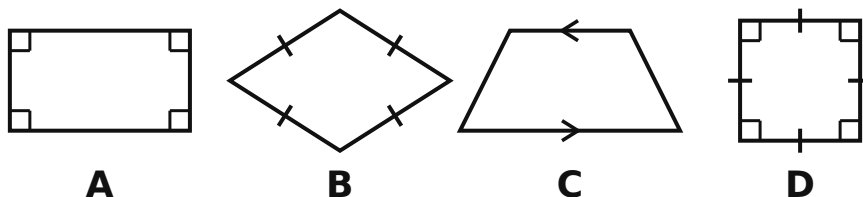
This 45-minute test covers classifying quadrilaterals and triangles by their properties, and using Venn and tree diagrams (5.G.B.3 and 5.G.B.4). There are 8 questions worth 20 points. Give reasons whenever a question asks you to explain.

About this test

- Grade: Grade 5
- Chapter: Classifying Two-Dimensional Figures
- Standards: 5.G.B.3, 5.G.B.4
- Time: 45 minutes
- Total: 20 points

Question 1 - Name each shape [4 pts]

Write the most specific name for each shape. Marks show equal sides, right angles and parallel sides.



Shapes A, B, C and D.

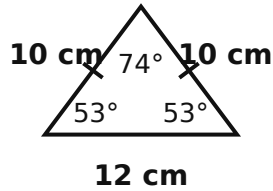
Question 2 - True or false [2 pts]

Answer each part.

- Every rhombus is a parallelogram. Is this true or false? Explain. (1 point)
- Every parallelogram is a rectangle. Is this true or false? Explain. (1 point)

Question 3 - Classify the triangle [2 pts]

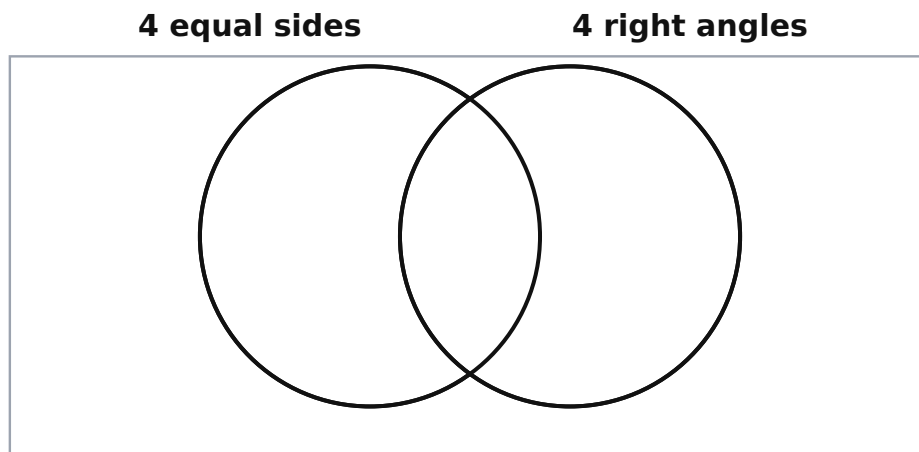
Classify the triangle by its sides and by its angles.



A triangle.

Question 4 - Venn diagram [3 pts]

Write each shape in the correct region of the Venn diagram: a square, a rectangle that is 6 cm by 3 cm, and a rhombus with angles of 60° and 120°.



A Venn diagram to complete.

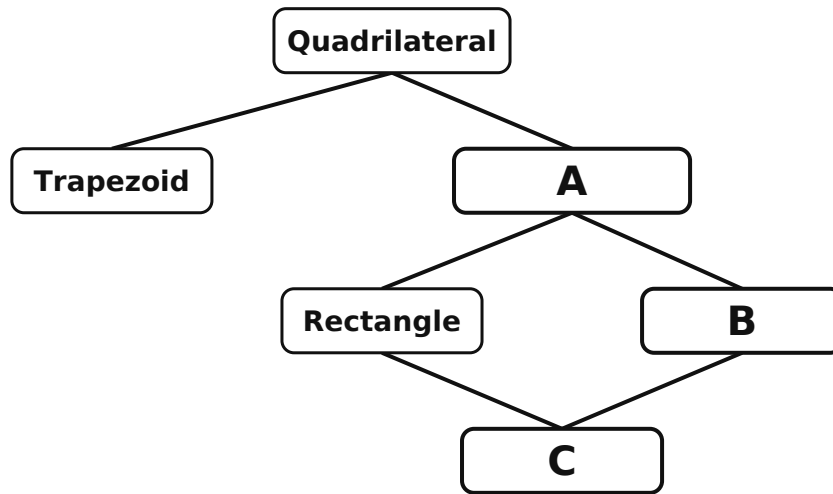
Question 5 - Right triangle [2 pts]

Solve. A triangle has sides 6 in, 8 in and 10 in, and one angle is a right angle. Classify the triangle by its sides and by its angles.

Question 6 - Complete the tree diagram [3 pts]

Complete the tree diagram. Write the name of each shape in the box with the same letter. Box

A: a quadrilateral with two pairs of parallel sides. Box B: a parallelogram with 4 equal sides. Box C: a shape with 4 equal sides and 4 right angles.



A tree diagram of the quadrilateral family.

Question 7 - Liam's claim [2 pts]

Solve. Liam says, “A square is not a rhombus, because a rhombus looks slanted.” Is he correct? Explain.

Question 8 - Four right angles [2 pts]

Solve. Which of these shapes must have four right angles: square, rhombus, rectangle, parallelogram, trapezoid?