Shape Categories

Explore ideas and representations

Name _____ **Date** _____ **Score** _____ / 6

QUICK REVIEW

Classify by attributes, not by how a shape is turned. A quadrilateral has 4 straight sides. A rectangle is a quadrilateral with 4 right angles. A rhombus is a quadrilateral with 4 equal sides. A shape can fit more than one rule.

Worked example

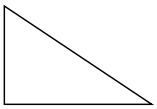
A shape has 4 straight sides, no right angles, and no equal sides. Which names fit: quadrilateral, rectangle, rhombus?

1. Count the sides: all 4 straight sides meet the quadrilateral rule.
2. It has neither 4 right angles nor 4 equal sides, so the other two categories do not fit.
Answer: Quadrilateral only.

Practice Problems

Show your thinking.

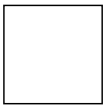
1. Name this shape and give two facts that support its category.



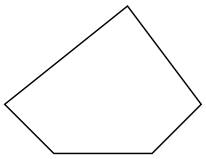
2. Name this shape and give two facts that support its category.



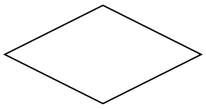
3. For the square, list all matching names from these categories: quadrilateral, rectangle, rhombus, triangle. Do not choose just one.



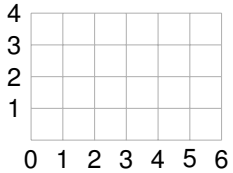
4. Name this shape and give two facts that support its category.



5. Name this shape and give two facts that support its category.



6. Draw a square 2 grid units wide and 2 grid units tall. State two properties of your drawing.



Answer Key

1. Triangle.
2. Rectangle.
3. Quadrilateral, rectangle, and rhombus.
4. Pentagon.
5. Rhombus.
6. A 2-by-2 square; 4 sides and 4 right angles.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. It has 3 straight sides and 3 corners.

2. Its 3 sides make it a triangle, not a quadrilateral.

Problem 2

1. It has 4 straight sides and 4 right angles; its long and short sides differ.

2. Its 4 sides also make it a quadrilateral.

Problem 3

1. It has 4 sides, so it is a quadrilateral, not a 3-sided triangle.

2. Its 4 right angles satisfy rectangle, and its 4 equal sides satisfy rhombus. These categories can overlap.

Problem 4

1. It has 5 straight sides and 5 corners.

2. Its 5 sides make it a pentagon, not a quadrilateral.

Problem 5

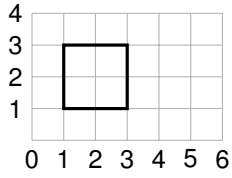
1. It has 4 equal straight sides, but its corners are not right angles.

2. Its 4 sides also make it a quadrilateral.

Problem 6

1. Draw two horizontal sides of length 2 and two vertical sides of length 2.

2. They meet at 4 right angles. All 4 sides have length 2, so it is a square.



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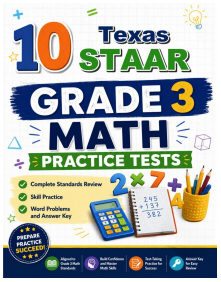

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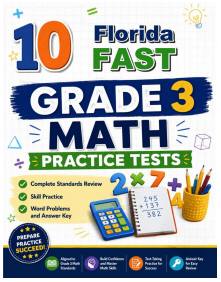

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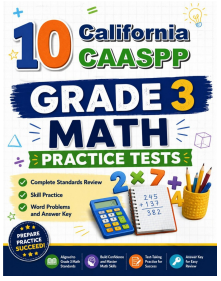

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