

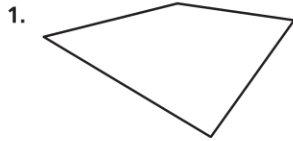
Name \_\_\_\_\_

**Quadrilaterals**

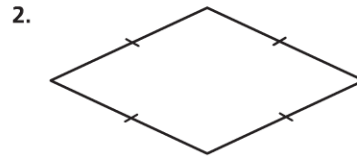
COMMON CORE STANDARD CC.5.G.4

Classify two-dimensional figures into categories based on their properties.

Classify the quadrilateral in as many ways as possible.

Write *quadrilateral*, *parallelogram*, *rectangle*, *rhombus*, *square*, or *trapezoid*.

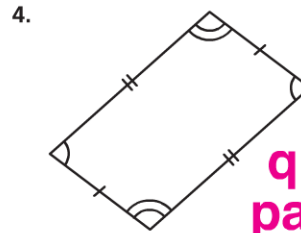
It has 4 sides, so it is a quadrilateral.  
None of the sides are parallel, so there is  
no other classification.



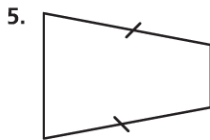
quadrilateral,  
parallelogram, rhombus



quadrilateral,  
parallelogram, rectangle



quadrilateral,  
parallelogram



quadrilateral, trapezoid



quadrilateral,  
trapezoid

**Problem Solving** 

7. Kevin claims he can draw a trapezoid with three right angles. Is this possible? **Explain.**
8. "If a figure is a square, then it is a regular quadrilateral." Is this true or false? **Explain.**

No. If there are 3 right angles, the last angle is a right angle also, and that is a rectangle, not a trapezoid.

True. All 4 angles and all 4 sides of a square are congruent. That means that a square is regular and a quadrilateral.

### Lesson Check (CC.5.G.4)

1. A certain parallelogram has two pairs of parallel sides. Based on this, which of the following classifications is NOT correct?
  - (A) quadrilateral
  - (B) rectangle
  - (C) square
  - (D) trapezoid
2. Which of the following is NOT always true about a rhombus?
  - (A) All sides are congruent.
  - (B) All angles are congruent.
  - (C) It has two pairs of parallel sides.
  - (D) It has two pairs of congruent angles.

### Spiral Review (CC.5.NF.3, CC.5.MD.1, CC.5.G.3, CC.5.G.4)

3. How many kilograms are equal to 5,000 grams? (Lesson 10.5)
  - (A) 500 kilograms
  - (B) 50 kilograms
  - (C) 5 kilograms
  - (D) 0.5 kilogram
4. The sides of a triangle measure 6 inches, 8 inches, and 10 inches. The triangle has one  $90^\circ$  angle. What type of triangle is it? (Lesson 11.2)
  - (A) scalene right
  - (B) isosceles right
  - (C) equilateral right
  - (D) scalene acute
5. A warehouse has 355 books to ship. Each shipping carton holds 14 books. How many cartons does the warehouse need to ship all of the books? (Lesson 2.7)
  - (A) 5
  - (B) 25
  - (C) 26
  - (D) 30
6. Which of the following statements is NOT true? (Lesson 11.1)
  - (A) A polygon has the same number of angles as it has sides.
  - (B) In a regular polygon, all sides are congruent, and all angles are congruent.
  - (C) Some triangles are regular.
  - (D) All heptagons have 6 vertices.