

Name _____ Date _____



5th Grade: 5.G.3: Understand that attributes belonging to a category of two-dimensional figures also belong to all subcategories of that category. For example, all rectangles have four right angles and squares are rectangles, so all squares have four right angles.

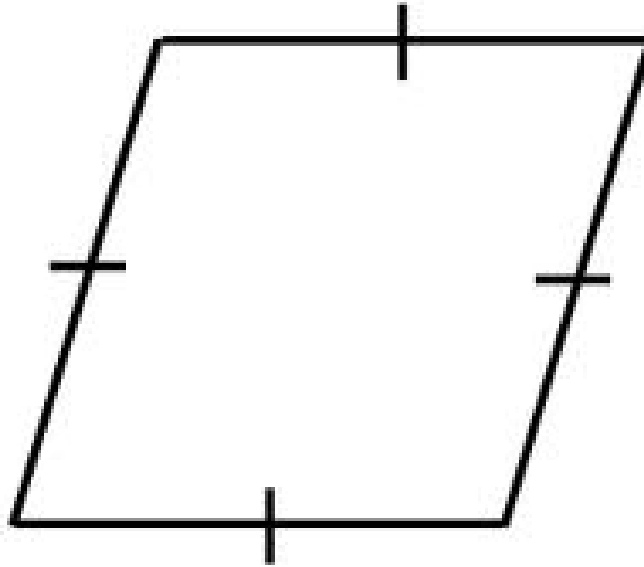
1. Which of the following statements is **true**?
 - a) All rectangles are squares
 - b) All squares are rectangles
 - c) All parallelograms are rectangles
 - d) All trapezoids are parallelograms

2. Which type of quadrilateral only has 1 pair of parallel sides?
 - a) square
 - b) kite
 - c) arrowhead
 - d) trapezoid

3. What is the name for a 6 sided polygon?
 - a) hexagon
 - b) pentagon
 - c) triangle
 - d) octagon

4. Which of the following statements is **false**?
 - a) A rectangle has 4 right angles
 - b) A rhombus has 4 sides of equal length
 - c) A square has 4 acute angles
 - d) A parallelogram has 2 sets of parallel sides

5. Which list correctly names all of the titles that can be attributed to the shape below?



- a) Quadrilateral, parallelogram
- b) Quadrilateral, parallelogram, rhombus, square
- c) Parallelogram, rhombus
- d) Quadrilateral, parallelogram, rhombus

Decide and circle the answer if these are TRUE or FALSE statements.

- 6. TRUE FALSE A polygon has at least 4 sides.
- 7. TRUE FALSE A kite has two opposing pairs of congruent adjacent sides.
- 8. TRUE FALSE Triangles that are acute have exactly two angles that are smaller than a right angle.
- 9. TRUE FALSE All parallelograms have congruent diagonals.
- 10. TRUE FALSE If a polygon has exactly two lines of symmetry, it must be a quadrilateral.