Directions: Answer the following question(s).

1 Which of these shapes can be classified as a polygon, quadrilateral, and a parallelogram?

A. trapezoid

B. rhombus

C. triangle

D. pentagon

2 All quadrilaterals are closed figures that have 4 straight sides and 4 interior angles.

Which shape is a quadrilateral?

A. circle
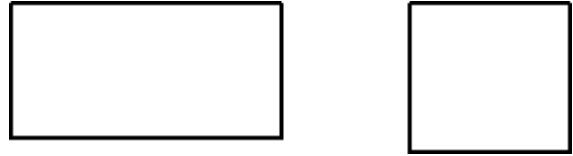
B. octagon

C. rectangle

D. triangle

3 A trapezoid is a quadrilateral with only one pair of parallel sides. Which of the following is a trapezoid?

A.

B.

C.

D.

4 A trapezoid is a type of _____ because it has four sides.

A. quadrilateral

B. parallelogram

C. rectangle

D. square

5 Look at the two quadrilaterals shown below.

Which of the following statements about these quadrilaterals is FALSE?

A. Both quadrilaterals have four equal angles.

B. Both quadrilaterals have four equal sides.

C. Both quadrilaterals have opposite parallel sides.

D. Both quadrilaterals have four right angles.

6 Polygons are closed figures formed from line segments that meet only at their endpoints. Triangles are three-sided polygons and quadrilaterals are four-sided polygons.

Which of the following statements best describes the relationship between polygons, triangles, and quadrilaterals?

A. Triangles and quadrilaterals are polygons.

B. Polygons are a subcategory of triangles.

C. Quadrilaterals are triangles.

D. Triangles are quadrilaterals.

7 All rectangles have four sides, two pairs of parallel sides, and all right angles. All shapes of what kind share these properties with rectangles?
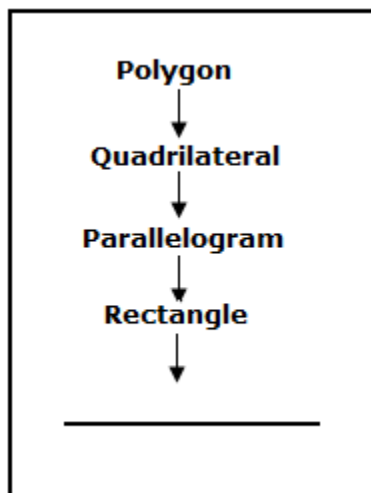
A. trapezoid

B. square

C. parallelogram

D. rhombus

8 Which two quadrilaterals MUST have four sides with equal lengths?

A. square and rectangle

B. rhombus and trapezoid

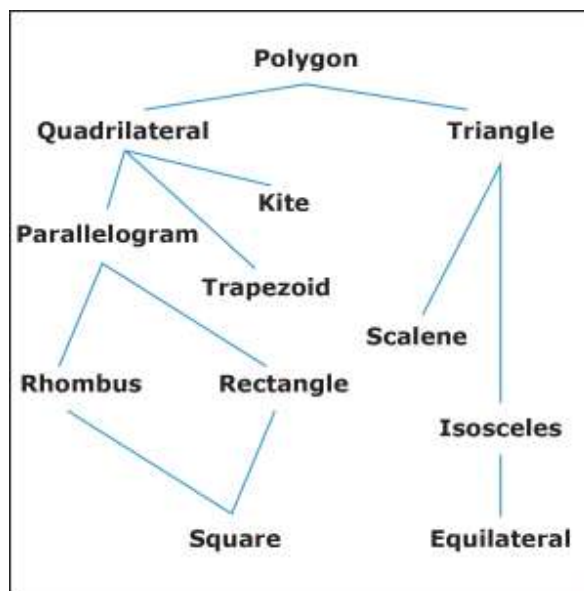C. parallelogram and square

D. square and rhombus

Directions: Answer the following question(s).

9   Look at the hierarchy below. Which figure can be placed below the rectangle in this hierarchy?

A.   rhombus
B.   trapezoid
C.   square
D.   triangle

10   Using the hierarchy below, which of the following shapes can be classified as a quadrilateral? Select three that apply.

A.   triangle
B.   kite
C.   rhombus
D.   square