

Name _____

1. What category does a rhombus fall under? **1 point**
- (A) Quadrilateral; because it has 4 right angles
 - (B) Parallelogram; because it has opposite sides the same length
 - (C) Trapezoid; because it has 4 sides
 - (D) Square; because it has 4 right angles

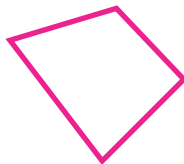
2. Use the words in the box below. Write the other names for each shape in the correct columns. **2 points**

Trapezoid	Square
quadrilateral	quadrilateral
	rectangle
	rhombus
	parallelogram

rectangle	parallelogram
rhombus	quadrilateral

3. Name and draw a picture of a convex polygon with 4 unequal sides. **2 points**

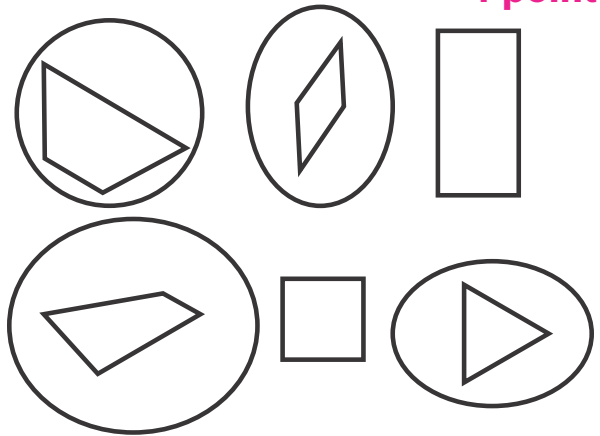
Quadrilateral; Sample drawing shown.



4. What are the possible shapes a parallelogram with 4 equal length sides could be? **1 point**

Rhombus, Square

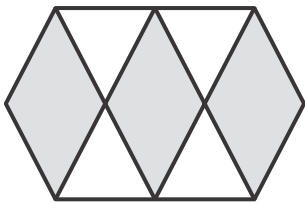
5. The shapes are sorted into two groups—circled and not circled. How are the shapes in the two groups different? **1 point**



Each shape in the circled group does not have any right angles. Each shape in the other group has right angles.

6. Select all of the true statements. **1 point**
- A rhombus is a quadrilateral.
 - A square is a rectangle.
 - All quadrilaterals are parallelograms.
 - A triangle with a right angle is a square.
 - A rectangle with equal length sides is a square.

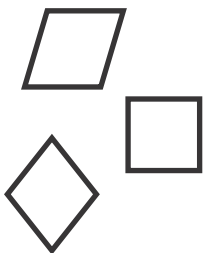
7. What polygons did Tomas use to make the quilt design? What do the shapes have in common? **2 points**



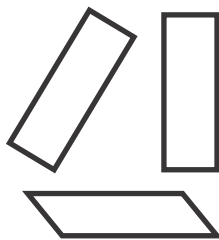
**Triangles and rhombuses;
They have nothing in
common.**

8. Look at each group.

Group 1



Group 2



- A. How are the two groups alike? **1 point**

Sample answer: The shapes in both groups are quadrilaterals and have at least 2 sides the same length.

- B. How are the two groups different? **1 point**

Sample answer: The shapes in Group 1 have 4 equal sides. The shapes in Group 2 each have 2 pairs of opposite sides equal.

9. Which statement must be true about a quadrilateral? **1 point**

- (A) It is a trapezoid.
- (B) It has four sides.
- (C) It has four right angles.
- (D) It has one pair of sides that never cross.

10. Is a trapezoid always a quadrilateral? Explain. **2 points**

Yes; Sample answer: Trapezoids always have 4 sides, so they are always quadrilaterals.

11. Name and draw a quadrilateral that is **NOT** a trapezoid or rhombus. Is there another shape you could have drawn? Explain. **3 points**

Sample answer: Rectangle with adjacent sides different lengths; I also could have drawn a parallelogram with adjacent sides with different lengths. Check students' drawings.