Place the Shapes

Write the letters of the shapes in the Venn diagram.

One or More Lines of Symmetry

Quadrilateral

1 2 3

4 5 6

7

One or More Right Angles

Use the letters to answer the questions.

1. Which shape is in Region 1? ______
2. Which shape is in Region 2? ______
3. Which shape is in Region 3? ______
4. Which shape is in Region 4? ______
5. Which shape is in Region 5? ______
6. Which shape is in Region 6? ______
7. Which shape is in Region 7? ______
8. Describe the shapes that belong in Region 5. ____________________________
Place the Shapes 2

Write the letters of the shapes in the Venn diagram.

All Sides Congruent  Small

One or More Right Angles

Use the letters to answer the questions.

1. Which shape is in Region 1? ______
2. Which shape is in Region 2? ______
3. Which shape is in Region 3? ______
4. Which shape is in Region 4? ______
5. Which shape is in Region 5? ______
6. Which shape is in Region 6? ______
7. Which shape is in Region 7? ______
8. Describe the shapes that belong in Region 6. ________________________
Place the Shapes 5

Write the letters of the shapes in the Venn diagram.

No Parallel Sides Large

At Least One Right Angle

Use the letters to answer the questions.

1. Which shape is in Region 1? _______
2. Which shape is in Region 2? _______
3. Which shape is in Region 3? _______
4. Which shape is in Region 4? _______
5. Which shape is in Region 5? _______
6. Which shape is in Region 6? _______
7. Which shape is in Region 7? _______
8. Describe the shapes that belong in Region 3. ____________________________
Place the Shapes 6

Write the letters of the shapes in the Venn diagram.

Not Quadrilateral

At Least One Pair of Parallel Sides

At Least One Line of Symmetry

Use the letters to answer the questions.

1. Which shape is in Region 1? ________
2. Which shape is in Region 2? ________
3. Which shape is in Region 3? ________
4. Which shape is in Region 4? ________
5. Which shape is in Region 5? ________
6. Which shape is in Region 6? ________
7. Which shape is in Region 7? ________
8. Describe the shapes that belong in Region 2. __________________________
GEOMETRIC CLASS INCLUSION
A CUT AND PAST ACTIVITY IN LOGIC

Grades 4-8

Directions: Cut out the polygons at the bottom of the page and paste them into the correct positions on the diagram as you discuss definitions for each term to show how each class becomes more specific than the next as one moves toward the center. Only one is subsumed by all the others. Can you see how this is so?

Polygon

Quadrilateral

Parallelogram

Rectangular

Equilateral

Cut out these figures:

Contributed by Bill Hammond