



Name \_\_\_\_\_ Date \_\_\_\_\_

## Geometry Town

In your role as city planner, you have been asked to plan a new part of your city. Create a model of your plan, including 2-D models of the buildings, to present to the committee. You are required to meet the following specifications.

- 4 streets that are parallel to each other
- 1 road that is perpendicular to the 4 parallel streets
- 1 avenue that intersects at least 2 streets but is not perpendicular to them
- 8 buildings that are the shape of any polygons and color coded using the following requirements
  - 2 different shaped red buildings that have at least one right angle and at least one set of parallel sides
  - 2 different shaped green buildings that have at least one obtuse angle
  - 2 different shaped blue buildings with no parallel or perpendicular sides
  - 2 different shaped yellow buildings that are right triangles
- 1 park shaped like a right triangle with the following features:
  - A swimming pool in the shape of a figure that has only acute angles
  - A right triangular sandbox
  - A triangular shaped sandbox with an obtuse angle
- 1 park that has at least 4 different geometric figures inside of it but has a symmetrical design (a line of symmetry could be drawn through the park)
- Name the park and the streets, the road, and the avenue.

Plan your city on a sheet of paper first. Once your plan is complete, create your model. Build your model on 1" grid chart paper. Use paper strips to create the streets, road, and avenue, and draw your buildings. Add the required features to the park by creating the appropriate 2-D shapes for your park.