Applied Geometry Sample Assessment

Geometric entities

Essential Standards addressed:

- Model the world mathematically
- Solve complex problems, even those that they have not previously seen
- Have number sense

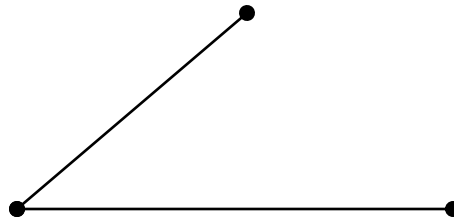1. Measure the line segment below to the nearest sixteenth of an inch.

2. If the line above was created for a drawing with a scale of 3" = 1', what would be the full-scale length of the line?

3. Create a perpendicular bisector to the line segment below.

4. Bisect the angle. And measure all the angles.

5. Construct double the angle above. (A problem you have not seen.) Measure it too.
6. Label all the line segments and angles above (use your own designations).
7. Create a circle with a diameter of 3 inches.

8. Construct a 50" by 20" rectangle at an appropriate scale to fit below.