Reflections on Geometry Worksheet

Dr. Sarah's MAT 3610: Introduction to Geometry

goals:

- Geometric Perspectives
  I can compare and contrast multiple geometric perspectives.

Welcoming Environment: Actively listen to others and encourage everyone to participate and try to help each other! Keep an open mind as you engage in our class activities, explore consensus and employ collective thinking across barriers. Maintain a professional tone, show respect and courtesy, and make your contributions matter.

Discuss and ask me questions during group work time as well as when I bring us back together:

1. **Building Community**: What are the preferred first names of those sitting near you? If you weren't able to be there write N/A or give reference to anyone you had help from.

2. Discuss with your group and then write down some thoughts (informal notes or bullet points are fine) related to two questions:

   What is geometry?

   How would you explain what geometry is to an interested high school student?

3. Next, review our catalog description and course activities to consider how do they fit within "What is geometry?"

   - Catalog description: A study of the development of Euclidean geometry through multiple perspectives, including synthetic and metric. Topics to be considered include the nature of axiomatic systems and proofs, parallelism, similarity, measurement, constructions, polyhedra, utilizing appropriate technology, and at least one non-Euclidean geometry. The course will focus on concept development and connections among mathematical perspectives.

   - Course activities: `https://www.appstate.edu/~greenwaldsj/class/3610/s24.html`

   Discuss with your group how do our catalog topics and course activities fit into "What is geometry?" and write down some thoughts (informal notes or bullet points are fine).

4. There are many activities, resources, lessons, and more available for Euclidean geometry or 3-D models of geometry. They can be found on the web, the library, in our book, or elsewhere. Research and select a Euclidean geometry activity, resource, lesson, or other item or a 3-D model of geometry activity, resource, lesson, or other item. Describe it in your own words and give the source. Be prepared to share it next class.

5. **Help each other and PDF responses to ASULearn**: If you are finished with the worksheet before I bring us back together, first ensure that your entire group is finished too, and if not, help each other. If your entire group is finished, pull up chairs so that you can discuss your responses with other groups. Collate your handwritten responses, preferably on this handout, into one full size multipage PDF for submission in the ASULearn assignment. I recommend you turn it in sometime today, but you have until the next class.