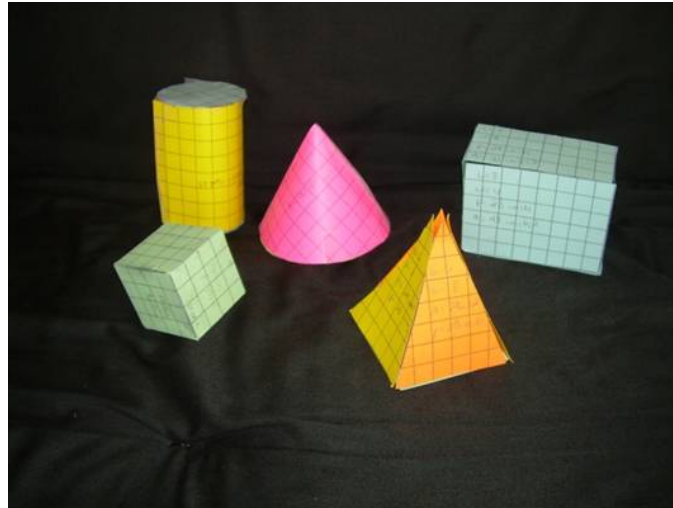


Reflecting on Practice Day 2





Hawaii

- Remember Brendan?



You're the teacher: What would you do the next day?

- The questions/activities you would prepare before the next class
- Whether you would address student misconceptions, and how or why not
- How you might address mathematical goals of the lesson in a different way
- How you would organize discussion/class work (individual/group/whole-class)



Make a simple poster *briefly* describing:

- Outline your mathematical goals for the day
- Outline what will happen in class (what the teacher and student will do)



Poster Discussion

What rationale led to your group's decision?

What questions/observations do you have for the other groups?



Doing the Mathematics

- Carefully read and answer the problems on this sheet.
- What misconceptions/errors do you anticipate students might make in this problem?



Scenerio

This problem was given to a group of 11th grade pre-calculus students, who have not taken geometry since 9th grade. Many have never used patty paper as a tool for geometry proofs. The teacher was concerned about his students' ability to produce mathematically convincing arguments, and wanted to see how they responded to a task in forming arguments which were outside their current course of study.




Given the Teacher's Goals:

Look at the following student work labeled A through P

Distribute the 16 papers “evenly”. Each participant individually analyze their set of student work.

What understandings, misconceptions, and issues do you see in the student work?



Based on your synthesis, describe how you would provide feedback to this class in the light of the goal: *to produce mathematically convincing arguments.*



Questions to Consider:

- Do all kids get feedback that helps them understand their misconceptions?
- What can you do to address the needs at different levels of understanding?
- Would individual feedback first be appropriate in this case? Why(not)?
- Now that we've talked about all of this, could you create a “model answer/rubric”