# Construction, Proof, and transformations

CTTI first geometry workshop

October 11, 2012

First, fill out the survey: background.

Discussion. Each table will be given a specific topic for which they are responsible. But feel free to discuss the others. We will have 30 minutes for discussion and 20 for report out.

All groups should discuss 2a).

1. Why do we teach geometry?
2. Proof
   (a) distinguish: construction, axiom/postulate, theorem, definition.
   (b) What are proofs for in general?
   (c) What is the role of 'proof' in hs geometry - a purpose, b) how much
   (d) Can there be a proof without hypotheses?
3. Constructions
   (a) What is the role of constructions in geometry?
   (b) How do actual ruler and compass constructions compare with constructions with a computer?
   (c) How does the increased role of constructions and transformations in the Common Core affect geometry instruction?
4. What is the difference between 'Euclidean ' and 'coordinate geometry'?