**Math Circle**

**March 8, 2014**

**Warm-up (30 minutes)**

Split the kids into small groups, so each group has a bottle of water and a tablespoon of peas. Their task will be to approximate how many peas will fill the water bottle.

The bottles can be marked or cut however they wish (but please cut the bottles for them!) . However, we do NOT want separate teams to work together.

Approximately 900 peas will fit inside of one bottle.

**Main Activity (1 hour)**

Kids can work alone or in groups to answer the following question:

 *How many chickpeas will it take to fill the classroom?*

They will have rulers, oddly-shaped containers, calculators, and 3-foot measuring tapes which they can use. They may need help measuring the dimensions of the room—especially the height—or cutting some of the containers.

We can add to the challenge question to make it harder if some groups work faster than others:

 *Did you take into account the the room is not a perfect box?*

 *Did you take into account the furniture?*

 *Did you take into account the door frames and window frames?*

 *Did you take into account the people?*

During the last 5 minutes or so, we can have them present their numbers and defend their reasoning.