## 8a: Too Tall To Measure - Geometry

Today we're going to measure things that are too tall for us to measure without extra help: the ceiling of the gym, the top of the backboard, the roof of the gym, etc. You need to measure the height of 3 different objects that are too tall to be measured without a ladder.

1) Measure the height of each member of your group in centimeters. Group members and their heights:

For EACH too-tall-to-be-measured object do the following:
2) Pick a spot where the too-tall-to-be-measured object "fits" on the ruler (in centimeters). Remember where you're standing! Measure the "fake height" of the too tall object.
3) Without changing where you measure from, measure each group member's "fake height standing next to the too tall object.

Object Object's fake height Group member's fake height

Once you have measurements for 3 different objects, head back to class.

Back in class:
4) By yourself, using what you know of math, find the real heights of the too tall objects.
5) Once you have a height for each object, share your results with your group members. Do your results make sense when compared to those of your group? If not, make the necessary changes.
6) Determine the group average of the heights.
7) What challenges did you face as a group?
"One challenge we faced was..."
"One reason our results might be off is..."

