Module 13 Name_____
Using Trigonometric Ratios Date_____Period_____

You will be finding the height or angle measure of 3 objects around the school. For each object, include a sketch of the object and the measurements you recorded. Things you may need to know-angle measure using clinometer, eye height of looker, distance from object to looker, length/height of object. If time, measure again from a different spot. **Show all work to find the height or angle measure. Measure in inches and convert your answer to feet.**

1. Find the height of the flagpole/tree. Angle_____ Distance_____ Trig Function _____

Measurer-measures the distances from objects to looker	
Looker-looks through the clinometer at the tops of objects (need eye height)	
Reader-reads angles of elevation from clinometer	
Recorder-records distances and angles of elevation	

Eye height of looker (inches): _____

Is my answer reasonable? Why or why not?

2. Find the height of a lamp post in the quad. Angle _____ Distance_____ Trig Function _____

Measurer	
Looker	
Reader	
Recorder	

Eye height of looker (inches): _____

Is my answer reasonable? Why or why not?

3. Find the angle of elevation (angle the ground makes with base of the ramp) of the ramp for the outside stage.

Measurements _____ _____ Trig Function _____

Measurer	
Reader	
Recorder	

Is my answer reasonable? Why or why not?