**Inclimeter Activity**

*Use the inclimeter to find the height of an object outside of the school.*

1) Measure the horizontal distance away from the object you want to find the height of.

2) Use the iclimeter to view the top of the object and determine the angle of elevation.

3) Draw a picture of this scenario (be sure to include yourself in the drawing)

4) Use trigonometry to find the height of the object.

1) You want to measure the height of the school. So you take out your inclimeter and walk a distance of 40 feet from the building. You deduce from the inclimeter that the angle of elevation is about 32 degrees. If your eye level is 5 feet from the ground, then how tall is the school?

2) You visit England and stand 350 feet from Big Ben. Using an inclimeter you find the angle of elevation from your eyes, which are 5.5 feet of the ground, to the top of the Big Ben is 70°. To the nearest foot, how tall is Big Ben?