Building the 72 point Geoboard

## Supplies needed:

Plywood can be purchased from Lowe's or Home Depot in 8 ft by 4 ft sheets. Since the geoboards are 16 " by 16 ", a sheet will yield 18 boards perfectly. Even better Lowe's and Home Depot will cut the plywood for you!

Panel Board Nails (or something like them) - around 1 inch in length. By rule of thumb, stock up on 100 nails for every board.

360 degree protractor. apluscompass.com. These protractors run about \$30. I only own one of these protractors and instead use it for my students to create their own 360 degree protractors using transparency sheets, wet erase markers, and the lamination machine.

## Hammers

## Sand Paper

Rubber bands or String

Safety Goggles
 figure out how far apart to place the nails if there will be a total of 72 nails driven into the board on the circumference of the circle. After they figure out that the nails should be 5 degrees apart (360/72), have them mark the five degree increments on their board. Students will also number the nails 1-72.

Day 3: Students will drive the nails into the board. Atleast $1 / 2$ inch of the nail should remain above the surface of the board. "Enough to hold a tense rubber band without sending the nail flying". They will also need to drive a nail into the center.


