

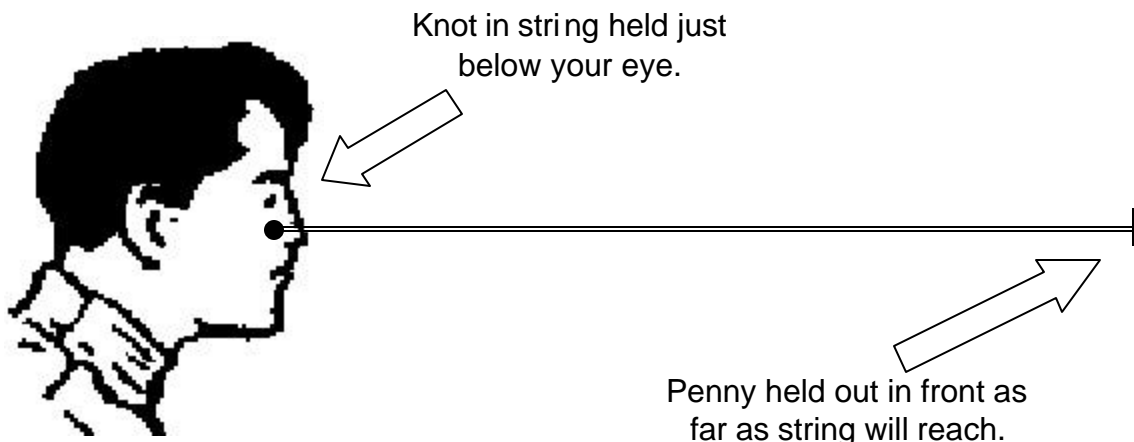
# HOW TO USE A HOMEMADE PENNY ANGLE GAUGE

**"IN"**

Penny is wider than the width of the tree trunk, at a point 4.5 feet off the ground.

**"OUT"**

Penny "fits" between the outside edges of the tree trunk, at a point 4.5 feet off the ground.



## HOW TO MAKE A HOMEMADE PENNY GAUGE

1. Drill hole in penny.
2. Knot string through penny hole.
3. Mark string 24.75 inches from penny.
4. Tie knot at mark.

**Note:** Dimensions are based on a "10 factor" variable point sample calculation.

**Caution:** This is NOT a precision tool! It is designed as an inexpensive device to teach students forest measurements.

## TO CALCULATE PLOT BASAL AREA

1. Stand at plot center.
2. Start with a tree you'll remember.
3. Use gauge to count "in" trees.
4. Turn in a clockwise direction.
5. Multiply plot tree count by 10.
6. Result is "square feet per acre."
7. Mark "in" trees for additional measurements such as dbh, height, species identification, etc.