

## Proportional Method of Measuring Trees

Materials needed: two students, ruler, paper, pencil

1. One student stands at base of tree.
2. Other student holds ruler at arm's length. Walk backward, keeping arm stiff, until top and bottom of ruler line up with top and bottom of tree.
3. Note where top of student's head appears on ruler.

**Example:** Length of  
Ruler =  $\frac{12 \text{ in.}}{2 \text{ in.}}$  = 6 in.  
 Measurement at top of student's head

4. Measure student's actual height. Multiply by answer above.

**Example:** actual Height x 6 in. =  
 55 in. x 6 in. = 330 inches  
 = 27.5 feet

