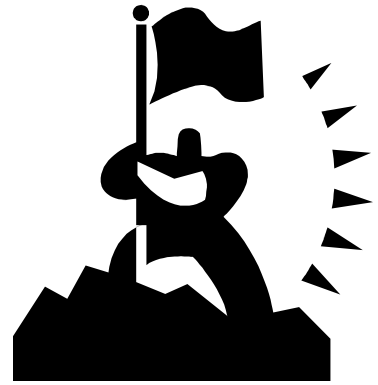


Name:
Date:
Period:



Flagpole Lab

Honors Pre-AP Geometry

- Materials: Two Yardsticks, Mirror, Pencil, Paper
- **Be sure to measure where the ground is as flat as possible!**
- Plans for measuring the height by using similar triangles (draw a picture here):

Height of Person (include units)	
Distance from Person to Mirror (include units)	
Distance from Mirror to Pole (include units)	

- Equation:
 - $$\frac{\text{Height of Flagpole}}{\text{Eye Height of Person}} = \frac{\text{Distance from Mirror to Flagpole}}{\text{Distance from Person to Mirror}}$$
 - _____ = _____

- Show Your Work Here:

- How tall is the flagpole?
- (*Interesting Fact:* to covert feet to meters, multiply by 0.3048; to convert meters to feet, divide by 0.3048)