

PHY 111

Tossing a ball in the air

A student will throw a ball into the air while another student measures the total time (up and down) in the air.

The thrower will determine the speed of the ball when it left his/her hand and the maximum height that the ball reached.

a) Total air time = _____ sec.

Time up (or down) only = _____ sec.

b) Find the speed of the ball (in m/sec) when it left your hand (use $g = 10 \text{ m/sec}^2$). Show work.

c) Find the maximum height of the ball in meters. Show work.

d) How fast did you throw the ball in mph?