

**Answer on Question #75108-Physics-Other**

an athlete throws a javeline just as it hits the ground the javeline has a horizontal velocity component of 20m per second and a vertical velocity component of 10 m per second. the magnitude of the javeline's velocity as it hits the ground is?

**Solution**

The magnitude of the javeline's velocity as it hits the ground is

$$V = \sqrt{(V_x)^2 + (V_y)^2}$$
$$V = \sqrt{(20)^2 + (10)^2} = 22.36 \frac{m}{s}.$$

**Answer: 22.36  $\frac{m}{s}$ .**

Answer provided by <https://www.AssignmentExpert.com>