

Physics Problem Solving Sheet

Problem

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Useful Description

Picture & Given Information:



$$\begin{aligned} \Delta y &= \Delta x = \\ v_{iy} &= 0 \text{ m/s} & v_x &= \\ v_{fy} &= & & \\ a &= -9.8 \text{ m/s}^2 & & \\ \Delta t &= \end{aligned}$$

$$\begin{aligned} \Delta x &= v_x \sqrt{\frac{2 \Delta y}{a}} \\ &= 26 \text{ m} (1.0 \text{ s}) \\ &= 26 \text{ m} \end{aligned}$$

$$\begin{aligned} \Delta x_2 &= 15 \text{ m} (1.0 \text{ s}) \\ &= 15 \text{ m} \end{aligned}$$

Question:

Target Quantity:

Physics Approach

Physics Concepts and/or Principles:

y: const. acc.
x: const vel.

Specific Application of Physics

Assumptions/ Constraints:

ign

Specific Equations:

Mathematical Procedures

Employ specific equations to solve for target quantity.

Check units & calculate