

Projectile Motion Worksheet (Case 1)

Name: _____

KEY

Mod: _____

Date: _____

Directions: Answer the following questions below using the projectile motion equations. List all variables and show your work. Circle your final answer with the correct units.

- An arrow is fired directly horizontal off a cliff that is 10.0 meters tall with a velocity of 65.5 m/s.
 - How long is the arrow in the air?
 - What is the range of the arrow?

$$\begin{aligned} v_{iy} &= 0 \frac{\text{m}}{\text{s}} & v_x &= 65.5 \frac{\text{m}}{\text{s}} \\ v_{fy} &= xxx & t &= \\ g &= -9.8 \frac{\text{m}}{\text{s}^2} & d_x &= ? \\ t &= ? \\ d_y &= -10\text{m} \end{aligned}$$

$$\begin{aligned} d_y &= \frac{1}{2}gt^2 \\ t &= \sqrt{\frac{2d_y}{g}} \\ t &= \sqrt{\frac{(2)(-10\text{m})}{-9.8 \frac{\text{m}}{\text{s}^2}}} \\ t &= 1.43\text{sec} \end{aligned}$$

$$\begin{aligned} d_x &= v_x t \\ d_x &= (65.5 \frac{\text{m}}{\text{s}})(1.43\text{s}) \\ d_x &= 93.66\text{m} \end{aligned}$$

- A pool ball leaves a 0.60-meter high table with an initial horizontal velocity of 2.4 m/s.
 - Predict the time required for the pool ball to fall to the ground.
 - Predict the horizontal distance between the table's edge and the ball's landing location.

$$\begin{aligned} v_{iy} &= 0 \frac{\text{m}}{\text{s}} & v_x &= 2.4 \frac{\text{m}}{\text{s}} \\ v_{fy} &= xxx & t &= \\ g &= -9.8 \frac{\text{m}}{\text{s}^2} & d_x &= ? \\ t &= ? \\ d_y &= -0.60\text{m} \end{aligned}$$

$$\begin{aligned} d_y &= \frac{1}{2}gt^2 \\ t &= \sqrt{\frac{2d_y}{g}} \\ t &= \sqrt{\frac{(2)(-0.60\text{m})}{-9.8 \frac{\text{m}}{\text{s}^2}}} \\ t &= 0.35\text{sec} \end{aligned}$$

$$\begin{aligned} d_x &= v_x t \\ d_x &= (2.4 \frac{\text{m}}{\text{s}})(0.35\text{s}) \\ d_x &= 0.84\text{m} \end{aligned}$$

- A soccer ball is kicked horizontally off a 22.0-meter high hill and lands a distance of 35.0 meters from the edge of the hill. Determine the initial horizontal velocity of the soccer ball.

$$\begin{aligned} v_{iy} &= 0 \frac{\text{m}}{\text{s}} & v_x &= ? \\ v_{fy} &= xxx & t &= \\ g &= -9.8 \frac{\text{m}}{\text{s}^2} & d_x &= 35\text{m} \\ t &= ? \\ d_y &= -22\text{m} \end{aligned}$$

$$\begin{aligned} d_y &= \frac{1}{2}gt^2 \\ t &= \sqrt{\frac{2d_y}{g}} \\ t &= \sqrt{\frac{(2)(-22\text{m})}{-9.8 \frac{\text{m}}{\text{s}^2}}} \\ t &= 2.12\text{sec} \end{aligned}$$

$$\begin{aligned} d_x &= v_x t \\ v_x &= \frac{d_x}{t} \\ v_x &= \frac{35.0\text{m}}{2.12\text{s}} \\ v_x &= 16.51 \frac{\text{m}}{\text{s}} \end{aligned}$$

- A rock is thrown with a velocity of 23.7 m/s horizontally off the top of an elevated hill. If the time it takes to reach the ground is 5.70 seconds. What is the height of the hill?

$$\begin{aligned} v_{iy} &= 0 \frac{\text{m}}{\text{s}} & v_x &= 23.7 \frac{\text{m}}{\text{s}} \\ v_{fy} &= xxx & t &= 5.70\text{s} \\ g &= -9.8 \frac{\text{m}}{\text{s}^2} & d_x &= \\ t &= 5.70\text{s} \\ d_y &= ? \end{aligned}$$

$$\begin{aligned} d_y &= \frac{1}{2}gt^2 \\ d_y &= \frac{1}{2}(-9.8 \frac{\text{m}}{\text{s}^2})(5.70\text{s})^2 \\ d_y &= -159.20\text{m} \end{aligned}$$

159.20m Tall Cliff

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