

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.

1. An arrow is fired directly horizontal off a cliff that is 10.0 meters tall with a velocity of 65.5 m/s.

a. How long is the arrow in the air?
b. What is the range of the arrow?

$$v_{0y} = 0 \frac{m}{s} \quad v_x = 65.5 \frac{m}{s}$$

$$v_{fy} = \cancel{xxx} \quad t =$$

$$g = -9.8 \frac{m}{s^2} \quad d_x = ?$$

$$t = ?$$

$$d_y = -10m$$

$$d_y = \frac{1}{2}gt^2$$

$$t = \sqrt{\frac{2d_y}{g}}$$

$$t = \sqrt{\frac{(2)(-10m)}{-9.8 \frac{m}{s^2}}}$$

$$t = 1.43 \text{ sec}$$

$$d_x = v_x t$$

$$d_x = \left(65.5 \frac{m}{s}\right)(1.43s)$$

$$d_x = 93.66m$$

2. A pool ball leaves a 0.60-meter high table with an initial horizontal velocity of 2.4 m/s.

a. Predict the time required for the pool ball to fall to the ground.
b. Predict the horizontal distance between the table's edge and the ball's landing location.

$$v_{0y} = 0 \frac{m}{s} \quad v_x = 2.4 \frac{m}{s}$$

$$v_{fy} = \cancel{xxx} \quad t =$$

$$g = -9.8 \frac{m}{s^2} \quad d_x = ?$$

$$t = ?$$

$$d_y = -0.60m$$

$$d_y = \frac{1}{2}gt^2$$

$$t = \sqrt{\frac{2d_y}{g}}$$

$$t = \sqrt{\frac{(2)(-0.60m)}{-9.8 \frac{m}{s^2}}}$$

$$t = 0.35 \text{ sec}$$

$$d_x = v_x t$$

$$d_x = \left(2.4 \frac{m}{s}\right)(0.35s)$$

$$d_x = 0.84m$$

3. 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.

$$v_{0y} = 0 \frac{m}{s} \quad v_x = ?$$

$$v_{fy} = \cancel{xxx} \quad t =$$

$$g = -9.8 \frac{m}{s^2} \quad d_x = 35m$$

$$t = ?$$

$$d_y = -22m$$

$$d_y = \frac{1}{2}gt^2$$

$$t = \sqrt{\frac{2d_y}{g}}$$

$$t = \sqrt{\frac{(2)(-22m)}{-9.8 \frac{m}{s^2}}}$$

$$t = 2.12 \text{ sec}$$

$$d_x = v_x t$$

$$v_x = \frac{d_x}{t}$$

$$v_x = \frac{35.0m}{2.12s}$$

$$v_x = 16.51 \frac{m}{s}$$

4. 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?

$$v_{0y} = 0 \frac{m}{s} \quad v_x = 23.7 \frac{m}{s}$$

$$v_{fy} = \cancel{xxx} \quad t = 5.70s$$

$$g = -9.8 \frac{m}{s^2} \quad d_x =$$

$$t = 5.70s$$

$$d_y = ?$$

$$d_y = \frac{1}{2}gt^2$$

$$d_y = \frac{1}{2}(-9.8 \frac{m}{s^2})(5.70s)^2$$

$$d_y = -159.20m$$

159.20m Tall Cliff

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