

Holt Physics

Problem 3E**PROJECTILES LAUNCHED AT AN ANGLE****PROBLEM**

The narrowest strait on earth is Scil Sound in Scotland, which lies between the mainland and the island of Scil. The strait is only about 6.0 m wide. Suppose an athlete wanting to jump “over the sea” leaps at an angle of 35° with respect to the horizontal. What is the minimum initial speed that would allow the athlete to clear the gap? Neglect air resistance.

SOLUTION**1. DEFINE**

Given:

$$\Delta x = 6.0 \text{ m}$$

$$\theta = 35^\circ$$

$$g = 9.81 \text{ m/s}^2$$

Unknown:

$$v_i = ?$$

2. PLAN

Diagram:



Choose the equation(s) or situation: The horizontal component of the athlete's velocity, v_x , is equal to the initial speed multiplied by the cosine of the angle, θ , which is equal to the magnitude of the horizontal displacement, Δx , divided by the time interval required for the complete jump.

$$v_x = v_i \cos \theta = \frac{\Delta x}{\Delta t}$$

At the midpoint of the jump, the vertical component of the athlete's velocity, v_y , which is the upward vertical component of the initial velocity, $v_i \sin \theta$, minus the downward component of velocity due to free-fall acceleration, equals zero. The time required for this to occur is half the time necessary for the total jump.

$$v_y = v_i \sin \theta - g \left(\frac{\Delta t}{2} \right) = 0$$

$$v_i \sin \theta = \frac{g \Delta t}{2}$$

Rearrange the equation(s) to isolate the unknown(s): Express Δt in the second equation in terms of the displacement and velocity component in the first equation.

$$v_i \sin \theta = \frac{g}{2} \left(\frac{\Delta x}{v_i \cos \theta} \right)$$

$$v_i^2 = \frac{g \Delta x}{2 \sin \theta \cos \theta}$$

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