

Answer on Question 65575, Physics, Mechanics, Relativity

Question:

Horizontal range of projectile depends upon:

- a) Initial velocity
- b) angle of projection
- c) weight of the projectile
- d) a) and b) both

Solution:

The horizontal range of projectile is given by the formula:

$$R = \frac{v_0^2 \sin 2\theta}{g},$$

here, v_0 is the initial velocity of the projectile, θ is the angle of projection of the projectile, g is the acceleration due to gravity.

As we can see from the formula, the horizontal range of projectile depends upon initial velocity and angle of projection. Therefore, the correct answer is d).

Answer:

- d) a) and b) both

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