

# Horizontal Range - Predicted v/s Actual

You might have noticed that the actual horizontal range obtained from experiment was slightly less than the theoretically predicted value. What would you attribute this to?

- a.) The spring in the cannon has a finite mass, which causes the spring to stretch less than if it were massless.
- b.) The mass of the projectile was not considered.
- c.) The friction inside the barrel worked to impede the spring - actuated launching mechanism.
- d.) Air resistance was ignored.
- e.) All of the above factors were responsible.