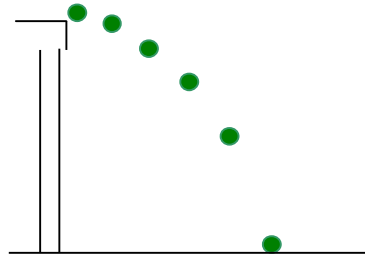


Note Taking Guide - Episode 405, Part 1

Projectile Motion:

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If we push the ball harder, giving it greater _____ velocity as it rolls off the table, the ball take (more, the same, less) time to fall to the floor. Draw the new trajectory.



Ex.

A stone is thrown horizontally at _____ m/s from a cliff that is _____ m high. How far from the base of the cliff does the stone land?

Problem Set #1:

1. A baseball is thrown horizontally with a velocity of _____ m/s. It travels a horizontal distance of _____ m to the plate before it is caught.
 - a. How long does the ball stay in the air?
 - b. How far does the ball drop during its flight?

What will happen if a pilot drops a package when the plane is directly over the target?