

Free fall IX- SCIENCE

SUBJECT : PHYSICS CHAPTER NUMBER: 8 CHAPTER NAME : MOTION

CHANGING YOUR TOMORROW

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NUMERICAL

1. A ball is thrown upward with an initial velocity of 10.0 m/s from the top of a 50.0m tall building.

- (a) With what velocity will the ball strike the ground?
- (b) How long does it take the ball to strike the ground.



- (i) the height of the bridge from the water level,
- (ii) the distance covered by stone in the last second (g = 9.8 m s^{-2})

3. A tennis ball is struck with a racket, firing it straight upward at 22 meters per second. After how much time will it be falling at 15 meters per second?



v = -50.0m