

Numericals

Practice. Learn. Succeed

Sub : Science

Grade: IX

Date:

Name:

ID No.....

1. A car falls off a ledge and drops to the ground in 0.5 s. Let ms^{-2} (for simplifying the calculations). (i) What is its speed on striking the ground? (ii) What is its average speed during the 0.5s? (iii) How high is the ledge from the ground?

2. Find the weight of a body at a height equal to the radius of earth. The weight of the body on the surface of earth is 200N.

3. What will be the acceleration due to gravity on a planet having mass 3 times the mass of the earth and radius $\frac{2}{3}$ times the radius of the earth. Take value of acceleration due to gravity on earth = 10 ms^{-2} .

4. Suppose the earth shrinks such that its radius decreases to times the present value. What will be your new weight if your mass is 60 kg? Take present value of $g= 10\text{m/s}^2$.
