



Loreto Convent Intermediate College

Lucknow

Holiday Homework

Class- XI

Subject- Physics

1. The average distance of the sun from earth is 1.496×10^{11} m. Express it in light year (ly) and parsec (pc).
2. A body has a uniform acceleration of 45 km/min^2 . Find its value in the SI system.
3. A body moving with initial velocity 5 m/s accelerates at 3 m/s^2 for 4 s. Find the distance covered.
4. A stone is dropped from a height and reaches the ground in 4 s. Find the height. (Take $g = 9.8 \text{ m/s}^2$)
5. The length, breadth and height of a block are 12.1 cm, 6.3 cm and 8.4 mm. Find its volume in appropriate significant figures.
6. The diameter of a sphere is 4.24 cm. Compute its surface area up to appropriate significant figures.
7. Write the content for the project given and collect pictures, graphs, observations, etc for the same.

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