

Physics

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(Chapter 1) (Units and Measurement) (Exercises)

(Class 11)

Question 1.4:

Explain this statement clearly: "To call a dimensional quantity 'large' or 'small' is meaningless without specifying a standard for comparison". In view of this, reframe the following statements wherever necessary:

- (a) atoms are very small objects
- (b) a jet plane moves with great speed
- (c) the mass of Jupiter is very large
- (d) the air inside this room contains a large number of molecules
- (e) a proton is much more massive than an electron
- (f) the speed of sound is much smaller than the speed of light.

Answer 1.4:

The given statement is true because a dimensionless quantity may be large or small in comparison to some standard reference. For example, the coefficient of friction is dimensionless. The coefficient of sliding friction is greater than the coefficient of rolling friction, but less than static friction.

- (a) An atom is a very small object in comparison to a soccer ball.
- (b) A jet plane moves with a speed greater than that of a bicycle.
- (c) Mass of Jupiter is very large as compared to the mass of a cricket ball.
- (d) The air inside this room contains a large number of molecules as compared to that present in a geometry box.
- (e) A proton is more massive than an electron.
- (f) Speed of sound is less than the speed of light.

Question 1.5:

A new unit of length is chosen such that the speed of light in vacuum is unity. What is the distance between the Sun and the Earth in terms of the new unit if light takes 8 min and 20 s to cover this distance?

Answer 1.5:

Distance between the Sun and the Earth = Speed of light $\times$ Time taken by light to cover the distance

Given that in the new unit, speed of light = 1 unit

Time taken, $t = 8 \text{ min } 20 \text{ s} = 500 \text{ s}$

$\therefore$ Distance between the Sun and the Earth = $1 \times 500 = 500 \text{ units}$

Question 1.6:

Which of the following is the most precise device for measuring length:

- (a) a vernier callipers with 20 divisions on the sliding scale
- (b) a screw gauge of pitch 1 mm and 100 divisions on the circular scale
- (c) an optical instrument that can measure length to within a wavelength of light ?

Answer 1.6:

A device with minimum count is the most suitable to measure length.

Least count of Vernier calipers = 1 standard division (SD) – 1 vernier division (VD)

$$= 1 - \frac{9}{10} = \frac{1}{10} = 0.01 \text{ cm}$$

$$\text{Least count of screw gauge} = \frac{\text{Pitch}}{\text{Number of divisions}} = \frac{1}{100} = 0.001 \text{ cm}$$

Least count of an optical device = Wavelength of light $\sim 10^{-5} \text{ cm} = 0.00001 \text{ cm}$

Hence, it can be inferred that an optical instrument is the most suitable device to measure length.

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