CASE STUDY

A train remains at rest before getting in motion. The train travels at a speed of 40 km/hr. It travels from Chakdaha to Dumdum in a span of 2 hours. When returning from Dumdum to Chakdaha again, the train takes nearly 4 hours to cover the same distance due to some blockage in the railways. When the train entered Chakdaha, it comes to a halt in a matter of 5 seconds.

QUESTIONS

- What do you mean by speed?
- Name the SI and CGS unit of speed.
- Find the distance between Chakdaha and Dumdum.
- Find the retardation of the train in SI units.
- What is the speed of the train during it's return from Dumdum to Chakdaha.
- When is a body said to be at rest?
- When is a body said to be in motion?
- Is speed a scalar or vector quantity? Justify your answer.