## Class-IX

## Physics

## Chapter-8 (Motion)

* Watch the video of science chapter-8 (Motion), Part-7 from


## Optimum Online E-Learning Platform

* Answer the following questions.

1. Draw distance-time graph for an object moving with constant velocity
2. Draw the velocity-time graph for an object moving with constant velocity

* Answers of the previous day homework

1. A bus starts from Darbhanga at 10:00am and reaches Patna at $12: 00 \mathrm{pm}$. The distance between Darbhanga and Patna is 140 km . Calculate the average speed of the bus.

## Answer-

$$
\begin{aligned}
& \text { Average speed }=\frac{\text { total distance travelled }}{\text { time taken }} \\
& \text { Or, } \quad \mathrm{V}_{\mathrm{a}}=\frac{s}{t}
\end{aligned}
$$

Given that,

$$
\begin{aligned}
& \mathrm{S}=140 \mathrm{~km} \\
& \mathrm{t}=4 \mathrm{hours} \\
& \mathrm{~V}_{\mathrm{a}}=\frac{140 \mathrm{~km}}{4 \mathrm{~h}}=35 \mathrm{~km} / \mathrm{h}
\end{aligned}
$$

[^0]2. If the magnitude of displacement and the distance covered by a moving object are the same then what will be the nature of their path of travel?

## Answer-

If the magnitude of displacement and total distance covered are equal, then the path is straight line

## $(D) \sqrt{\square}]$ 

[^1]
[^0]:    **Link of Optimum Online E-Learning Platform:- www.optimumschool.net/online In case of any query call at +91-9818033213

[^1]:    **Link of Optimum Online E-Learning Platform:- www.optimumschool.net/online In case of any query call at +91-9818033213

