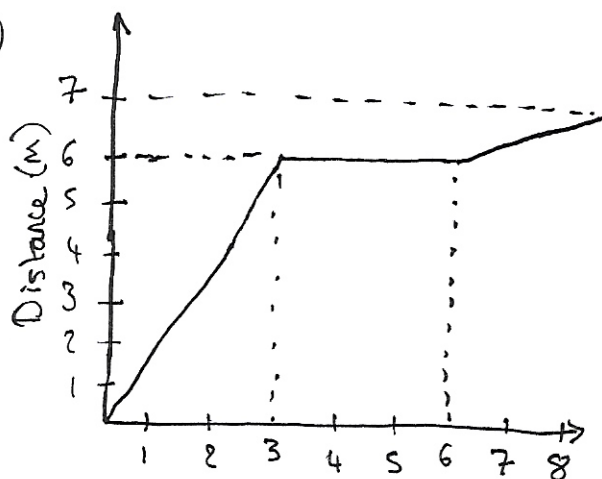


Motion Questions

- ① Calculate the average speed of a runner who runs 100m in 10s.
- ② A car travels 2km in 100s. Calculate its average speed. The speed limit is 50 mph, ~~was~~ is the car keeping to this?
- ③ A car is travelling at 13.4 m/s. Calculate the distance travelled in 2s at this speed.
- ④ Calculate the time taken for a car to travel 50m at 13.4 m/s.

⑤



(i) How fast is the object travelling between 0s and 3s?

(ii) What is the average speed between 0s and 8s?

(iii) How fast is the object travelling between 6s and 8s?

- ⑥ Two cars are travelling in the same direction on a road. The blue car is travelling at 25 m/s in front of the red car which is travelling at 30 m/s. What is their relative speed?
- ⑦ A railway line and a road are side by side. A train and a car are travelling in the same direction, with the train in front of the car. The train travels at 52 m/s and the car at 30 m/s. What is their relative speed?
- ⑧ Two cars are travelling along a road in opposite directions. The blue car is travelling at 25 m/s and the red car is travelling at 30 m/s. What is their relative speed?