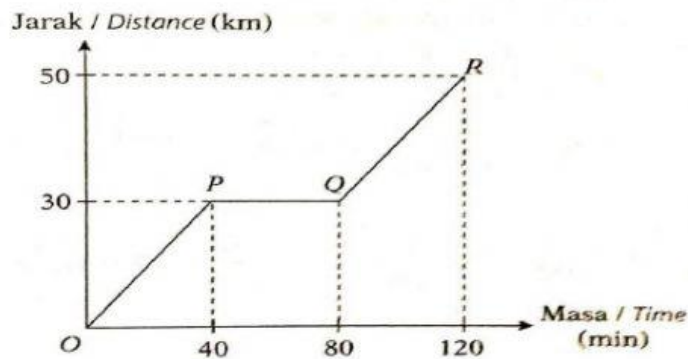


NAMA:..... KELAS :.....

- 1 Diberi graf jarak-masa bagi pergerakan suatu objek. Objek itu bergerak dari *O* ke *R* dalam tempoh 120 minit.

*Given the distance-time graph for the motion of an object. The object moves from *O* to *R* for a period of 120 minutes.*

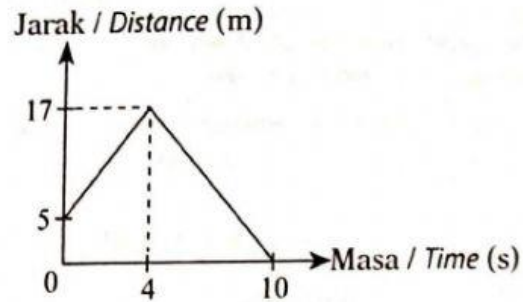


- (i) Nyatakan tempoh masa, dalam minit, ketika objek itu berhenti seketika.
State the duration of time, in minutes, when the object is stationary.
- (ii) Hitung laju, dalam km h^{-1} , objek itu dari *O* ke *P*.
*Calculate the speed, in km h^{-1} , of the object from *O* to *P*.*
- (iii) Cari jarak, dalam m, yang dilalui oleh objek itu dalam 40 minit terakhir.
Find the distance, in m, travelled by the object in the last 40 minutes.

JAWAPAN:

- (i) minit/minutes
- (ii) $\text{Km j}^{-1} / \text{kmh}^{-1}$
- (iii) m

- 2 Diberi graf jarak-masa bagi suatu zarah.
Given the distance-time graph of a particle.



Hitung / Calculate

- (i) laju dalam 4 saat pertama,
the speed in the first 4 seconds,
- (ii) kadar perubahan jarak dalam 6 saat terakhir,
the rate of change of distance in the last 6 seconds,
- (iii) purata laju bagi seluruh perjalanan itu.
the average speed for the whole journey.

JAWAPAN:

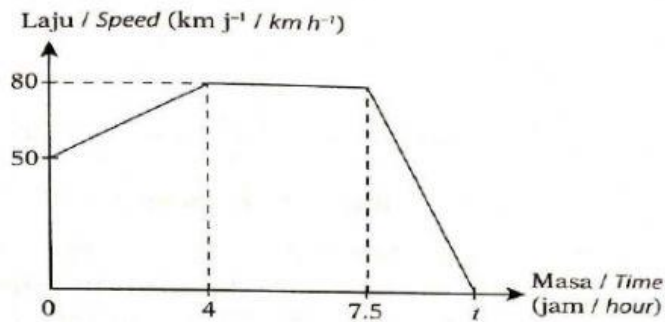
(i) ms^{-1}

(ii) ms^{-1}

(iii) ms^{-1}

- 3 Rajah 1 menunjukkan graf laju-masa bagi pergerakan sebuah kereta dalam tempoh t jam.

Diagram 1 shows a graph of the speed-time graph of a car within t hours.



Rajah 1 / Diagram 1

- (i) Nyatakan tempoh masa, dalam jam, apabila kereta itu bergerak dengan laju seragam.

State the length of time, in hours, when the car was moving at a uniform speed.

- (ii) Hitungkan kadar perubahan laju, dalam km j^{-2} , kereta itu dalam tempoh 4 jam pertama.

Calculate the rate of change of speed, in km h^{-2} , of the car in the first 4 hours.

- (iii) Hitung nilai bagi t , dalam jam, jika seluruh pergerakan kereta itu ialah 600 km.

Calculate the value of t , in hours, if the whole journey of the car is 600 km.

CS

JAWAPAN

(i) Jam/hours

(ii) $\text{km j}^{-2} / \text{km h}^{-2}$

(iii) Jumlah Jarak / total distance =

$t =$