

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

## 9.1 LAJU

### 9.1.1 Laju Sebagai Suatu Kadar

1. Teck Seng berbasikal sejauh 130 km dalam masa 5 jam. Hitung lajunya.

$$\text{Laju} = \frac{\text{Jarak}}{\text{Masa}}$$

Jawapan :

$$\begin{aligned} \text{Laju} &= \frac{\boxed{\phantom{00000}}}{\boxed{\phantom{00000}}} \\ &= \boxed{\phantom{000}} \text{ km/j} \end{aligned}$$

2. Atlet paralimpik Malaysia, Mohamad Ridzuan Mohamad Puzi mencatat masa terpanjang dalam acara 100 meter di Sukan Paralimpik 2016 di Rio de Janeiro, Brazil, iaitu 12.07 saat. Hitung lajunya, dalam m/s, lariannya.

Jawapan :

$$\begin{aligned} \text{Laju} &= \frac{\boxed{\phantom{00000}}}{\boxed{\phantom{00000}}} \\ &= \boxed{\phantom{000}} \text{ m/s} \end{aligned}$$

3. Azhar dan Fikri ialah perenang muda negara. Semasa latihan acara 100 meter, Azhar menamatkan renang dalam masa 12.03 saat manakala Fikri menamatkan renang dalam masa 12.19 saat. Hitung laju renang Azhar dan Fikri.

Jawapan :

$$\begin{aligned} \text{Laju renang Azhar} &= \frac{\boxed{\phantom{00000}}}{\boxed{\phantom{00000}}} = \boxed{\phantom{000}} \text{ m/s} \\ \text{Laju renang Fikri} &= \frac{\boxed{\phantom{00000}}}{\boxed{\phantom{00000}}} = \boxed{\phantom{000}} \text{ m/s} \end{aligned}$$

4. Padankan masa yang betul bagi jarak dan laju yang diberikan.

$$\begin{aligned} \text{Laju} &= 125 \text{ m/s} \\ \text{Jarak} &= 500 \text{ m} \end{aligned}$$

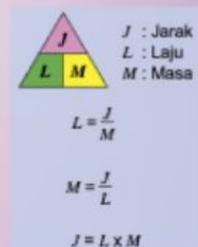
$$\begin{aligned} \text{Laju} &= 44.1 \text{ km/j} \\ \text{Jarak} &= 150 \text{ km} \end{aligned}$$

$$\begin{aligned} \text{Laju} &= 120 \text{ km/j} \\ \text{Jarak} &= 90 \text{ km} \end{aligned}$$

3 jam 24 minit

45 minit

4 saat



5. Berdasarkan gambar rajah berikut, hitung jarak yang dilalui bagi setiap situasi yang diberikan.

(a)  Laju = 250 km/j, Masa = 2 jam 40 minit

Jawapan :

Langkah  $\Rightarrow$  unit masa perlu sama  $\Rightarrow$  minit tukar kepada jam

$$\text{Masa} = 2 \text{ jam} + \left[ 40 \text{ } \boxed{\phantom{00}} \right] \text{ jam}$$

$$= 2 \text{ jam} + \boxed{\phantom{00}} \text{ jam}$$

$$= \boxed{\phantom{00}} \text{ jam}$$

$$\text{Jarak} = \boxed{\phantom{000}} \times \boxed{\phantom{000}}$$

$$= \boxed{\phantom{0000}} \text{ km}$$

(b)  Laju = 343 km/min, Masa = 4.5 minit

Jawapan :

$$\text{Jarak} = \boxed{\phantom{0000}} \times \boxed{\phantom{0000}}$$

$$= \boxed{\phantom{00000}} \text{ km}$$

(c)  Laju = 3 m/min, Masa = 5.5 minit

Jawapan :

$$\text{Jarak} = \boxed{\phantom{0000}} \times \boxed{\phantom{0000}}$$

$$= \boxed{\phantom{00000}} \text{ m}$$

(d)  Laju = 80 km/j, Masa =  $1\frac{1}{2}$  jam

Jawapan :

$$\text{Jarak} = \boxed{\phantom{0000}} \times \boxed{\phantom{0000}}$$

$$= \boxed{\phantom{00000}} \text{ km}$$