Physical Quantities → Length (L)
Mass (M)
Time (T)
Current (I)

Units : SI / International / Metric system
Imperial / English (US)

SI : Fundamental Units × Derived Units

Mass - Kilograms (kg)
Time - seconds (s)
Length - meters (m)
Current - Amperes (A)

speed : $\frac{L}{T} = \frac{m}{sec}$

80 m → km

1 km — 1000 mt

x — 80 mt

$\frac{1}{x} = \frac{1000}{80}$ or $x = \frac{80}{1000}$

$\boxed{x = 0.08 \text{ km}}$

0.2 miles → WT Young from CP

4 minutes, speed = $\frac{\text{distance}}{\text{time}}$

a) speed = $\frac{0.2 \text{ miles}}{4 \text{ min}} = 0.05 \frac{\text{miles}}{\text{min}}$

b) speed $\frac{0.05 \text{ miles}}{\text{min}}$ $\quad 1 \text{ min} = \frac{1}{60} \text{ hr}$

$= \frac{0.05 \text{ miles}}{\frac{1}{60} \text{ hr}} = 3 \frac{\text{miles}}{\text{hr}}$

c) speed : $3 \frac{\text{miles}}{\text{hr}} = 3 \times 1.60 \frac{\text{km}}{\text{hr}}$ $\quad 1 \text{ mile} = 1.60 \text{ km}$

$= 4.8 \frac{\text{km}}{\text{hr}}$

d) $4.8 \frac{\text{km}}{\text{hr}} \rightarrow \frac{\text{m}}{\text{sec}} \Rightarrow 4.8 \frac{\text{km}}{\text{hr}} = \frac{4.8 \times 10^3 \text{ m}}{60 \times 60 \text{ sec}}$

$1 \text{ km} = 10^3 \text{ met} \Rightarrow 1.33 \frac{\text{met}}{\text{sec}}$

$1 \text{ sec} = \frac{1}{60} \text{ min}$ $\quad 1 \text{ min} = \frac{1}{60} \text{ hr}$

$= \frac{1}{60} \times \frac{1}{60} \text{ hr}$ $\quad 1 \text{ sec} = \frac{1}{60} \times \frac{1}{60} \text{ hr}$

$\Rightarrow 1 \text{ hr} = 60 \times 60 \text{ sec}$