1 km = 1000 meters

80 m ?

1 km = 1000 m

x km = 80 m

$\frac{1}{x} = \frac{1000}{80}$ or $x = \frac{80}{1000} \Rightarrow x = 0.08$

80 m = 0.08 km

4.0 minutes, 0.2 miles

arg. $v = \frac{\text{distance}}{\text{time}}$

a) v in miles/min b) miles/hr c) km/hr d) m/sec

a) v in mi/min?

$v = \frac{0.2}{4} = 0.05 \ \frac{mi}{min}$

b) v in mi/hr

$0.05 \ \frac{mi}{min} = \frac{0.05 \ mi}{\frac{1}{60} \ hr}$

1 min = $\frac{1}{60}$ hr

$= \boxed{3 \ \frac{mi}{hr}}$

1 mi = 1.6 km

c) $3 \ \frac{mi}{hr} = 3 \times 1.6 \ \frac{km}{hr} = \boxed{4.8 \ \frac{km}{hr}}$

d) $\frac{met}{sec}$?

$4.8 \ \frac{km}{hr} = \frac{4.8 \times 1000}{61 \times 60} \ \frac{m}{sec}$

1 km = 1000 met

1 hr = 60 × 60 sec

$v = 1.33 \ \frac{m}{sec}$