

Velocity
practice

How fast is a car going if it travels 36.0 km in 1.50 hours?

1 $V = \frac{d}{t}$

2 $V = \frac{d}{t}$

3 $V = \frac{36.0}{1.50}$

4 $V = 24.0$

5 $V = 24.0 \text{ Km/hr}$

Convert to m/s

1 $\frac{24.0 \text{ Km}}{\text{sig fig hr}}$

2 $24.0 \frac{\text{Km}}{\text{hr}} \frac{1000\text{m}}{1 \text{ Km}} \frac{1 \text{ hr}}{3600 \text{ s}}$

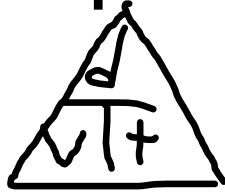
3 6.6666

4 6.67 m/s

5

How long will it take a car to travel to Green Bay if the trip is 225 km and the speed limit is 120 km/hr?

1 $v = \frac{d}{t}$



2 $t = \frac{d}{v}$

3 $t = \frac{225 \text{ km}}{120 \text{ km/hr}}$

4 1.88 hr

5 1.9 hr

What is the acceleration of a person who finishes a race traveling 18.5 m/s and ran the race for 5.6 s?

$$1 \quad a = \frac{V_f - U_i}{t}$$

$$2 \quad a = \frac{V_f - U_i}{t}$$

$$3 \quad a = \frac{18.5 \text{ m/s} - 0 \text{ m/s}}{5.6 \text{ s}}$$

$$4 \quad a = 3.3$$

$$5 \quad a = 3.3 \text{ m/s}^2$$

What is the velocity of a bike that travels 235m in 13s?

1 $v = \frac{d}{t}$

2 $v = \frac{d}{t}$

3 $v = \frac{235\text{m}}{13\text{s}}$

4 $v = 18$

5 $v = 18\text{m/s forward}$