



Displacement = 20m Dist. = 180m

$$\text{Speed} = \frac{\text{distance}}{\text{time}} \quad S = \frac{d \text{ (m)}}{t \text{ (s)}}$$

Ex. $\rightarrow \frac{10 \text{ meters}}{2 \text{ seconds}} = 5 \frac{\text{meters}}{\text{second}} = 5 \text{ m/s}$

A bullet has velocity !

Speed in a given direction

A turning car only has speed.

Distance is how far an object has moved in meters
 $1 \text{ m} = 100 \text{ cm} = 1,000 \text{ mm}$
 $1,000 \text{ m} = 1 \text{ km} \quad (\text{A} \rightarrow \text{B})$

Displacement is the distance and direction of an object's change in position from the starting point ($\text{A} \rightarrow \text{C}$)

Speed is the distance an object travels per unit of time: We use meters per second. $\text{Speed} = \text{m/s}$

Velocity is the speed of an object plus its direction of movement.