

CP - Sept 15

speedometer - shows your speed at that instant

instantaneous speed.  
the speed at that exact moment - not an average

Average Speed

$$S_{avg} = \frac{\text{total distance}}{\text{total time}}$$

Velocity somewhat diff from speed

Speed  $\frac{\text{dist}}{\text{time}}$

50m/min  
500m/20min  
Twisters

1000m  
Twisters

$$\text{Velocity} = \frac{\text{displacement}}{\text{time}}$$

Displacement From where you start to where you finish regardless of the path.

• Your house  
• school  
• Twisters

100m  
500m

Speed =  $\frac{1100m}{1 \text{ hr}}$

Velocity =  $\frac{100m \text{ N}}{1 \text{ hr}}$

Velocity has two parts

- ① Rate or "Speed part"
- ② Direction

$\frac{50\text{Km}}{\text{hr}}$  south



