Answer on Question \#63244, Physics / Mechanics | Relativity
Imagine that you are in a car, driving along a main road. Along the road, there are sign telling you how far it is to the next town. At the road side, there may be marker posts every 100 meters. Describe how you could use these road signs to work out the average speed of the car

## Solution:

Average speed v :
$\mathrm{v}=\frac{\mathrm{s}}{\mathrm{t}}(1)$,
where $s$ is all distance in meters, $t$ is all time in seconds.
Of $(1) \Rightarrow$ average speed of the car:
$\mathrm{V}=\frac{100+100+\cdots+100}{\mathrm{t}_{1}+\mathrm{t}_{2}+\cdots+\mathrm{t}_{\mathrm{n}}}(2)$,
where $t_{1}$ is time in seconds, during which the car passes the first $100 \mathrm{~m}, \mathrm{t}_{2}$ is time in seconds, during which the car passes the second $100 \mathrm{~m}, \mathrm{t}_{\mathrm{n}}$ is time in seconds, during which the car passes the latest 100 m .

