

Answer on Question #64284-Physics-Other

A car drives along the highway at 115 km/h for 2.50 hours. Once in the city, the car drives at 60 km/h for the next 0.500 hours. Determine the average velocity for the car

Solution

The average velocity for the car is

$$v = \frac{D}{T} = \frac{d_1 + d_2}{t_1 + t_2} = \frac{v_1 t_1 + v_2 t_2}{t_1 + t_2} = \frac{(115)(2.5) + (60)(0.5)}{2.5 + 0.5} = 106 \frac{km}{h}.$$

Answer: $106 \frac{km}{h}$.

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