

**Answer on question 40383 – Math – Algebra**

A man completed a trip of 136 km in 8 hrs. Some part of the trip was covered at 15 km/hr. What is the part of the trip covered at 18 km/hr?

**Solution**

Let the first part of the trip will be  $x$  km. Then the second part of the trip is  $136-x$  km .We obtain the equation

$$\frac{x}{15} + \frac{136-x}{18} = 8$$

Where  $\frac{x}{15}$  is the time for covering the first part of trip and  $\frac{136-x}{18}$  is the time for covering the second part of trip. We need to solve this equation

$$\frac{6x + 680 - 5x}{90} = 8$$

$$x = 40,$$

the part of the trip covered at 18 km/hr is  $136-40=96$  km.

**Answer:** 96 km.