

## Answer on Question #66895 – Math – Algebra

### Question

Calculate how long it takes the Bus to complete a Journey if it leaves Point A on Friday, 11:50 and arrives at Point B, the next day (Saturday) at 07:20. The Average Speed of the Bus is 85km/h.

### Solution

There are 24 hours in a day and 60 minutes in an hour.

On Friday a journey lasts for  $24:00 - 11:50 = 12$  hours 10 minutes and on Saturday it lasts for 07 hours and 20 minutes.

Finally it takes the Bus

$12$  hours 10 minutes + 07 hours 20 minutes = 19 hours 30 minutes to complete a journey.

If the average speed of the Bus is 85 km/h, the distance will be

$$19.5 \text{ hours} \times 85 \text{ km/h} = 1,657.5 \text{ km.}$$

**Answer:** it will take the bus 19 hours and 30 minutes to complete a journey.