**QUESTION :**

A car starts with the speed of 70kmph with its speed increasing every two hours by 10kmph .in how many hours will it cover 345kms?

**ANSWER :**

4.5 hours.

**STRATEGY :**

Distance covered in first 2 hours = (70 x 2) km = 140 km

Distance covered in next 2 hours = (80 x 2) km = 160 km

Remaining distance = 345 – (140 + 160) = 45 km.

Speed in the fifth hour = 90 km/hr

Time taken to cover 45 km =(45/90) hr = (1/2) hr

Therefore Total time taken = 2 + 2 + (1/2) = 4 (1/2)hrs