1 A car journey is in two stages.

Stage 1 The car travels 110 miles in 2 hours.

Stage 2 The car travels 44 miles at the same average speed as Stage 1

Work out the time for Stage 2

Give your answer in minutes.

speed :
$$\frac{110}{2} = 55$$
 (1)

time
$$\frac{44}{55} = 0.8$$
 hours

2 Charlie is driving 293 miles home.

Не

- leaves at 9.00 am
- travels the first 176 miles at an average speed of 48 mph
- drives the rest of the way at an average speed of 65 mph

Will he be home by 2.30 pm?

You must show your working.

first: $\frac{176}{48} = 3\frac{2}{3}$ hours = 3 hours 40 minutes

 $\frac{293-176}{1} = \frac{117}{1} = 1.8 \text{ hours}$

= 1 hour 48 minutes

9 am + 3 hour 40 mins + 1 hour 48 mins

= 2.28 pm

Yes. He arrives at 2.28 pm