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Charlie leaves home at 09:00 and then stops for breakfast ...... miles from home. After his long breakfast, he walks to the shops at an average speed of ..... mph, arriving at 13:00. He then walks towards home until 15:00, and then to the library, arriving at 17:00, having walked ..... miles since leaving the shops. He then returns home at a constant speed, arriving at ... : ...

(4 marks)







- 5. On the diagram below, draw a distance-time graph to represent the following journey.
  - Raine starts 4 miles from home and walks away from home at 3 mph for 20 minutes.
  - She then runs away from home for 3 miles, taking 15 minutes.
  - She rests for 10 minutes
  - She then takes the bus to the shops, 16 miles away from home at an average speed of 32 mph.
  - After shopping for 5 minutes, she returns home at an average speed of 48mph.



- 6. Complete the graph below to show a 9-mile race between two people, Jenny and Owen.
  - They both start the race at the same time
  - Owen runs at 6mph for 20 minutes, then rests for 5 minutes, runs 6 miles in 45 minutes. He then runs to finish the race after 80 minutes total.
  - Jenny runs at 12mph for 30 minutes, but then rests for 20 minutes after that. She then runs the remaining distance in 20 minutes.

Do Jenny and Owen ever meet at any point during the race?

.....

When Jenny completes the race, approximately how far does Owen have left to run?

.....

(6 marks)

