

Subject 2

Please, do not write on the exam paper.

Each working day Peter normally rides his bike three kilometres from home to the railway station, takes the thirty-six minutes' train trip to town, and then rides his bike two kilometres downhill from the station to his work place at an average speed of twenty-four kilometres per hour.

The average speed of the train is one hundred kilometres per hour and the first bike ride takes nine minutes.

- a) What distance is the train trip?
- b) What average speed is the first bike ride?
- c) How long does the second bike ride take?
- d) What is the average speed for Peter's trip from home to work?
- e) One day Peter drove his car to work. The trip was two kilometres shorter but the average speed was thirty-six kilometres per hour slower.

How much longer did this car trip take?