Speed, Distance and Time

1. The map shows several towns with the main roads joining them.
The numbers indicate the **distances in kilometres** between each pair of towns.

(a) How far is it from London to Cambridge if the journey takes 2 hours at an average speed of 48 km/h?

(b) A vintage car completed the London to Brighton run in 12 hours. What was its average speed?

(c) How long would it take a cyclist to travel from Oxford to Portsmouth if his average speed was 20km/h?

(d) A van driver left London at 0950 to travel to Norwich via Cambridge. He arrived in Norwich at 1335. Calculate his average speed for the journey.

(e) A bus travelled from Oxford to Dover (via London) in 3hours 24 minutes. If its average speed for the journey was 60km/h, calculate the distance from Oxford to London.

2. The rail distance from Manchester to Glasgow is 357km.

If a high speed train averages 140 km/h, find the time taken in hours and minutes.

3. A yacht leaves Largs and sails a distance of 74km.

If the yacht averages a speed of 14km/h, calculate the time taken for the journey correct to the nearest minute.

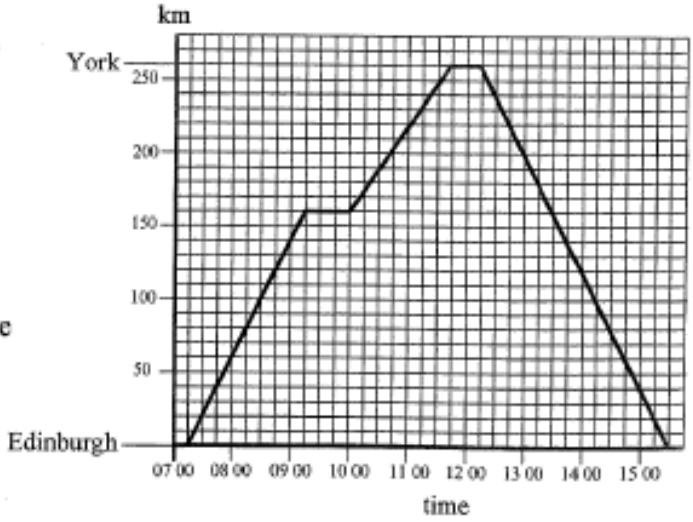
4. A car leaves Dumfries at 1.25pm and reaches Edinburgh at 2.53pm.

(a) How long did the journey take?

(b) If the distance travelled was 84 miles, calculate the average speed of the car correct to the nearest mile per hour.

5. Mr Munro drove his car from Edinburgh to York and back.

The record of his journey is shown in the graph.



(a) He rested on his way to York.
For how long did he rest?

(b) Calculate his average speed from York back to Edinburgh.

(c) Calculate his average speed for the whole journey (do not include the stops).
Give your answer correct to 1 d.p.

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1. (a) 96 km (b) 7·5 km/h (c) 7hrs 15mins (d) 56 km/h (e) 100 km

2. 2 hrs 33 mins

3. 5 hrs 17 mins

4. (a) 2 hrs 28 mins (b) 57 mph

5. (a) 45 mins (b) 80 km/h (c) $520 \div 7 = 74 \cdot 3$ km/h