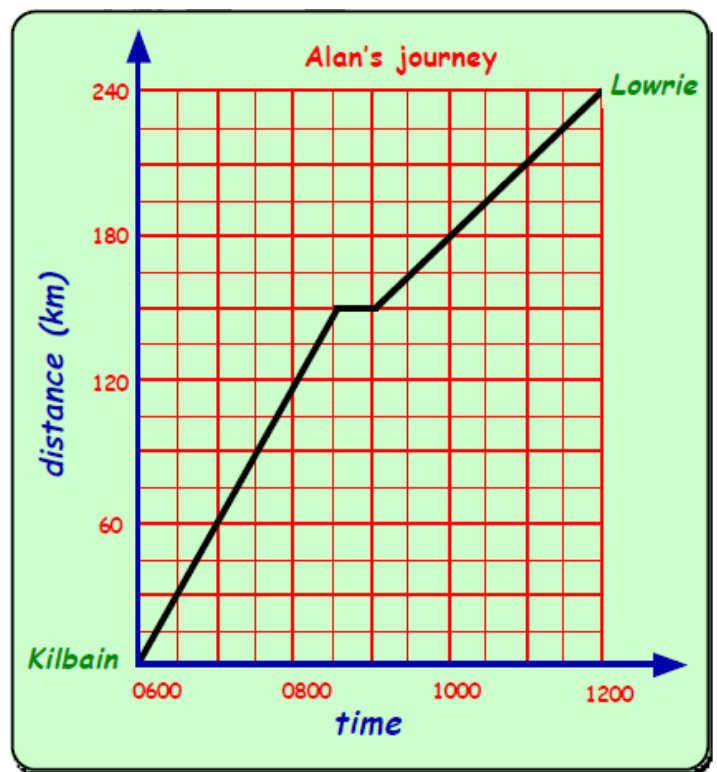# Knox Academy
Mathematics Department

4 Question Challenge on…

Distance/Time Graphs
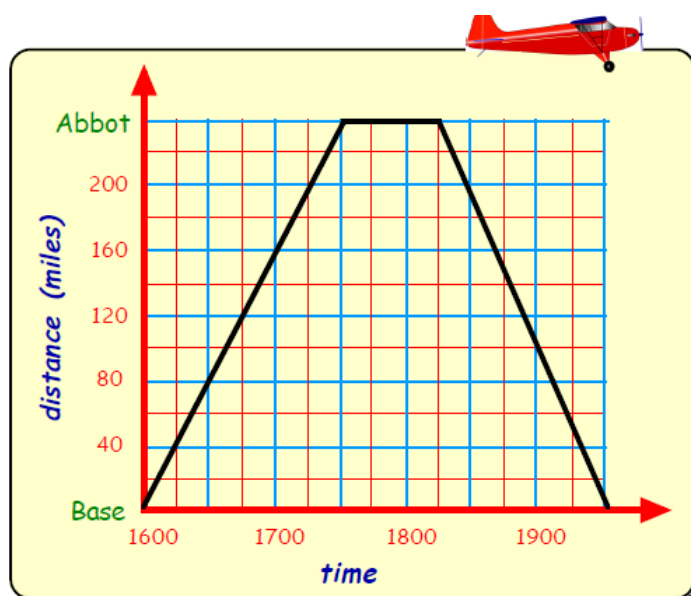
There are only two questions in this Exercise.

Q1 This time-distance graph shows Alan's journey from his home in Kilbain to a meeting in Lowrie.

He set out at 0600 along the motorway and stopped for breakfast, before finishing the rest of his journey along the A23 trunk route.

Alan's journey

(a) How long was the first part of his journey along the motorway?

(b) How long did he take for his breakfast?

(c) When did he arrive in Lowrie?

(d) Calculate Alan's speed :-

    (i) On the motorway

    (ii) Between 8.30am and 9am

    (iii) Along the A23

Q2 Johanna flew her light aircraft from her base to Abbot Airfield, picked up 3 passengers and flew back to base?

(a) For how long was Johanna on the ground at Abbot Airfield?

(b) Calculate her speed for the outward flight to Abbot.

(c) She has a "tail wind" on the way back. Calculate her return speed.

(d) From your answers to b and c, say whether the "tail wind" slowed her down or helped her go faster.