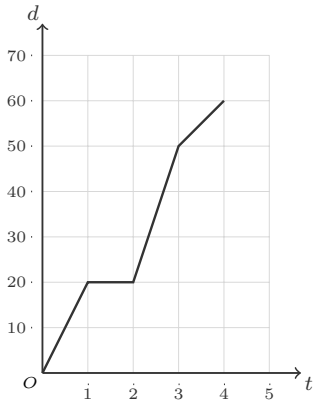
1 The graph shows a journey of 60 km.

t is the time in hours and d is the distance from home in kilometres.



(a) How long did the whole journey take? (1)

(b) At what time was the traveller 20 km from home? (3)

(c) Find the speed of the fastest part (1)

(d) Find the speed of the slowest moving part (1)

(e) Find the average speed for the whole journey (1)

(7 marks)

2 Three stories and three graphs. **Write the letter of the graph that matches each story.**

Graph A: rises, then flat, then rises. Graph B: rises, then flat, then falls to zero. Graph C: rises steeply, then rises gently.

(a) She cycled to the shop, waited, then cycled home again (1)

(b) He ran, then walked the rest of the way (1)

(c) He drove, stopped for fuel, then drove on (1)

(d) **Say how you can tell B from A without any numbers.** (2)

(5 marks)

3 **One of these could not be a distance-time graph.** Say which, and explain why.

Graph P goes flat for a while. Graph Q goes straight upwards, with no movement across. Graph R comes down to zero.

(a) which one (1)

(b) **why** (2)

(3 marks)