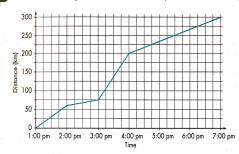
## Speed Time Distance Graphs

## [22] James was travelling to Cornwall on his holidays. This distance-time graph illustrates his journey.



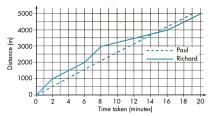
- a His fastest speed was on the motorway.
  - i How much motorway did he use?
  - ii What was his average speed on the motorway?
- **b** i When did he travel the slowest?
  - ii What was his slowest average speed?

$$ii) \frac{125}{1} = 125 \, \text{Km/hr}$$

- b) i) Slowest between Zpm and Ipm
  - ii) 75-60 = 15 Ku/hr

## Richard and Paul had a 5000 m race. The distance covered is illustrated below.

- Paul ran a steady race. What is his average speed in:
  - i metres per minute?
  - ii km/h?
- **b** Richard ran in spurts. What was his quickest average speed?
- Who won the race and by how much?

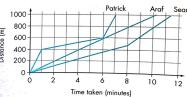


or 5 -19

= 5 x 60 = 15.8 Km/h

e) Paul won by I min or by 250m

- Three friends, Patrick, Araf and Sean, ran a 1000 metres race. The race is illustrated on the distance-time graph below.
  - Describe the race of each friend.
  - **b** i What is the average speed of Araf in m/s?
  - What is this speed in km/h?



a) Patrick run fost, slow, fost and von Aret ran steedy speed and came second Sean ran slow them faster but came last.