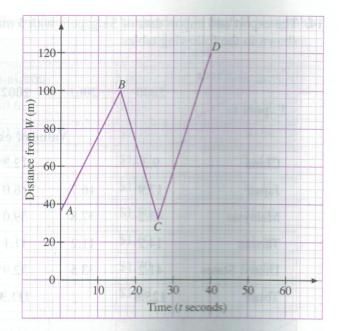
- **15.** The distance-time graph below shows the movement of a toy from a point *W* during a 40-second interval.
  - (a) (i) How far was the toy from W initially?
  - (ii) State the furthest and the nearest distances between the toy and W during the 40 seconds.
    - (b) From t = 40 to t = 60, the toy moved towards W at a uniform speed of 5 m/s. Locate a point on the distance-time graph which represents the position of the toy when t = 60. Label the point as E.
    - (c) (i) Find the total distance moved by the toy during the 60 seconds.
    - (ii) Hence, calculate the average speed of the toy during the 60 seconds.



- **16.** The distance-time graph below shows the movement of an armoured vehicle that participated in a military exercise during a 30-minute period from 09 00 to 09 30.
  - (a) Describe the motion of the armoured vehicle
  - (i) from 09 00 to 09 11,
    - (ii) from 09 11 to 09 15,
    - (iii) from 09 15 to 09 24,
    - (iv) from 09 24 to 09 30.
  - **(b)** Find the total distance travelled by the armoured vehicle during the 30 minutes.
  - (c) Calculate the average speed, in km/h, of the armoured vehicle
    - (i) from 09 00 to 09 24,
    - (ii) from 09 11 to 09 30.

