IGCSE Speed/Time Paper 2/3

Oct 05 Paper 2

Speed
(m/s)

12.4

NOT TO
SCALE

0   3   8   10

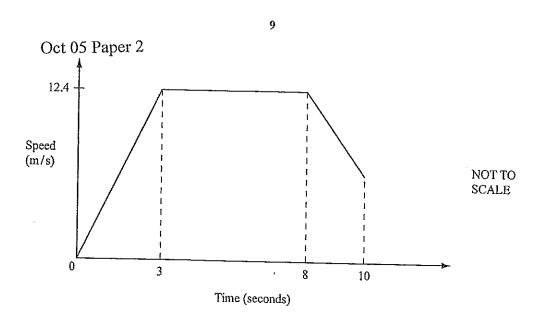Time (seconds)

An athlete, in a race, accelerates to a speed of 12.4 metres per second in 3 seconds.
He runs at this speed for the next 5 seconds and slows down over the last 2 seconds as shown in the speed-time graph above.
He crosses the finish line after 10 seconds.
The total distance covered is 100 m.

(a) Calculate the distance he runs in the first 8 seconds.

Answer(a) .... m [2]

(b) Calculate his speed when he crosses the finish line.

Answer(b) .... m/s [2]