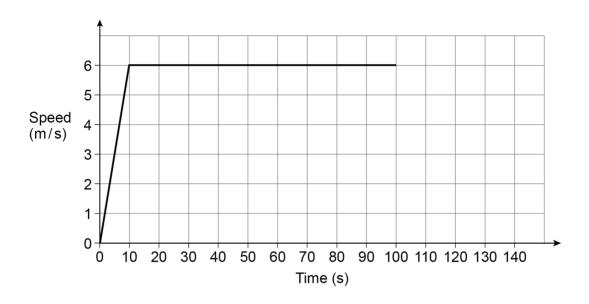
1 Helena ran an 800-metre race in 140 seconds.

The speed-time graph represents the first 100 seconds of her run.



Helena ran the last 40 seconds with constant deceleration.

Work out her speed as she finished the race.

[4 marks]

distance =
$$\frac{1}{2} \times 10 \times 6 = 30 \text{ m}$$

$$\frac{1}{2}$$
 × (V+6) × 40 = 230

Answer 5.5

metres per second