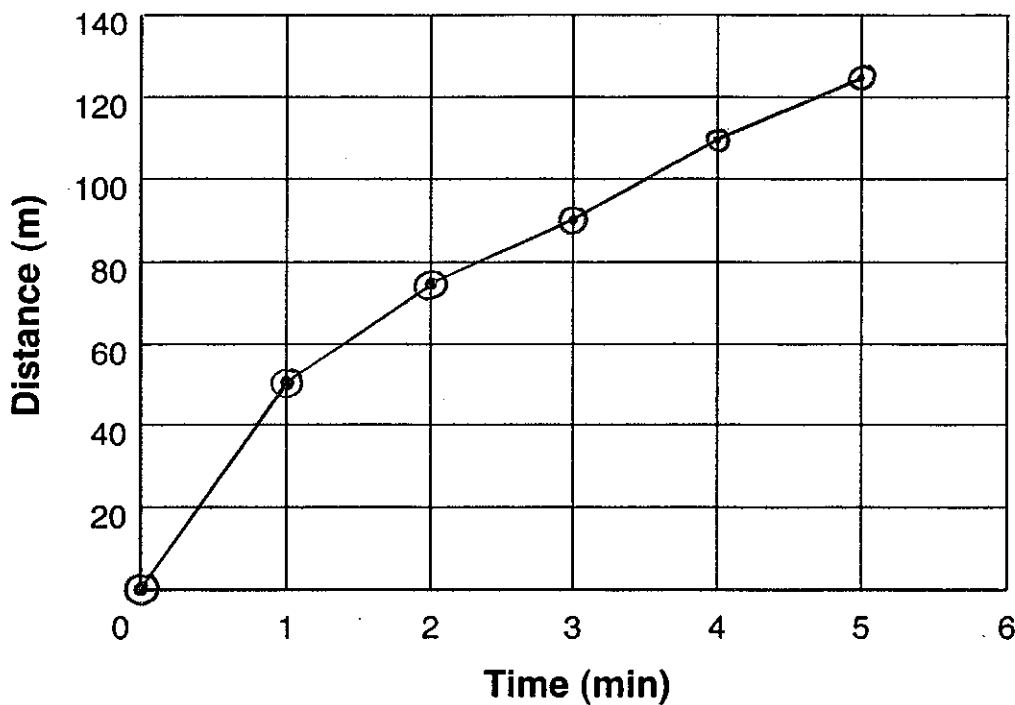


# CALCULATING AVERAGE SPEED

Name Fawcett

Graph the following data on the grid below and answer the questions at the bottom of the page.

<u>Time (min)</u>	<u>Distance (m)</u>
0	0
1	50
2	75
3	90
4	110
5	125



$$\text{Average Speed} = \frac{\text{Total Distance}}{\text{Total Time}}$$

- What is the average speed after two minutes?  $\bar{s} = \frac{d}{t} = \frac{75\text{m}}{2\text{min}} = 37.5 \frac{\text{m}}{\text{min}}$
- After three minutes?  $\bar{s} = \frac{d}{t} = \frac{90\text{m}}{3\text{min}} = 30 \frac{\text{m}}{\text{min}}$
- After five minutes?  $\bar{s} = \frac{d}{t} = \frac{125\text{m}}{5\text{min}} = 25 \frac{\text{m}}{\text{min}}$
- What is the average speed between two and four minutes?  $\bar{s} = \frac{d}{t} = \frac{110\text{m} - 75\text{m}}{4\text{min} - 2\text{min}} = 17.5 \frac{\text{m}}{\text{min}}$
- What is the average speed between four and five minutes?  $\bar{s} = \frac{d}{t} = \frac{125\text{m} - 110\text{m}}{5\text{min} - 4\text{min}} = 15 \frac{\text{m}}{\text{min}}$