| Questio n number | Answer | Notes | Marks |
|------------------------|---|--|-------|
| 4 (a) (i) | 6.1 (m); | | 1 |
| (ii) | any two from:- MP1. (on distance-time graph,) flat line means zero speed / eq MP2. (so) count when slope is zero; MP3. 7 (times); | allow flat or horizontal for zero slope | 2 |
| (b) (i) | (average) speed = (total) distance moved (total) time taken | allow defined symbols ignore 'triangles' | 1 |
| (ii) | Substitution; Calculation; Matching unit; | allow both substitution and calculation marks for a correct value without working | 3 |
| | e.g. Average speed = $\frac{6.1}{(7 \times 60)}$ = 0.0145 = 0.015 m/s | allow 6.1, or ecf for distance 7 for time allow alternatives with | |
| | | compatible unit, e.g. 1.45 cm/s OR 1.5 cm/s 14.5 mm/s OR 15 mm/s 0.87 m/minutes 87 cm/minute 870 mm/minute Allow for 1 mark 6 / 7 or 0.9 | |

Total 7 marks