Mark schemes

1.

2.

(a) 7

1

Do not accept -7 or 7-

(b) -2

1

Do not accept 2-

[2]

Gives a correct interpretation of the graph, eg:

- It is a straight line
- It goes up steadily
- The angle of the line stays the same
- The gradient of the line is constant

Accept minimally acceptable explanation, eg:

- It is straight
- It doesn't bend
- It is a diagonal

Do not accept incomplete or ambiguous explanations that do not sufficiently imply a constant speed and / or do not demonstrate the relationship holds for the entire graph, eg:

- The line goes straight up
- It is not wobbly
- It is level
- Every 5 mins he walks the same distance
- He walks 1km in the first 15 mins and 1km in the second 15 mins

! Values read from graph

Accept, provided it is clear the relationship holds for the entire graph.

Values should be accurate within +/− 0.1km and / or +/− 2 minutes, eg:

- 0.7km every 10 minutes
- Every 7.5 minutes he walks about half a km

! Calculation of kilometres per hour

Accept values in the range 3.7 to 4.3km per hour inclusive.

1

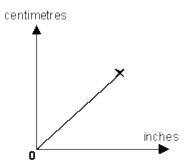
- (b) 08:10
- ! Accept values between 08:09 and 08:11 inclusive
- ! Time

[2]

1

3.

(a) Straight line drawn on the graph from the origin to the given point or beyond.



The line drawn must be straight **AND** connect the given point with the origin.

Accept a straight line which misses the given point and/or the origin by up to 1 mm.

1

1

(b) Answer in the range of 65 to 67 inclusive **OR** answer consistent with the line drawn on graph in **2a**.

Accept answers apparently based upon calculation, provided the answer lies within the given range.

[2]

4.

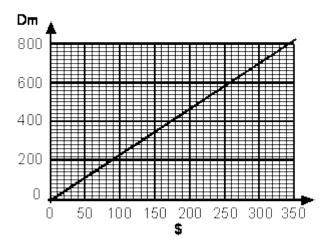
(a) Number of DM in the range 630 to 670, **inclusive.**

1

(b) Number of \$ in the range 270 to 280, **inclusive**.

1

(c) Correct drawing of line **through origin** and point plotted according to answers given in (a) and (b), eg:



To be awarded the mark, the point must be correctly plotted (within range described below) **AND** the line must pass through both the origin and the point. The point must be plotted within \pm 20DM and \pm \$10 of the answers given in (a) and (b)

[3]

1