Record of Results

- At least 6 sets of data taken over a large range of values of n. [1]

- Length recorded to an appropriate number of d.p.   [1]

- All headers are correctly labelled: n, y/cm   [1]

Graph of n against y: total **4 marks.**

- **S – Scale**   [1]
- **P – Points**   [1]
- **L – Line**   [1]
- **A – Axis (including labels of axis)**   [1]

Questions:

1 Comment on the relationship between n and y.

n is linearly related to y with a positive gradient.   [1]

2 Calculate the gradient of the graph plotted.

- C and T – Suitable coordinates chosen and labelled for two points [1]
- Correct substitution of coordinates of triangle to obtain the answer [1]

3 By using your graph, determine the number of paper clips that can be suspended if the 10 g mass is to be suspended from a point that is 2.0 cm from P. Do **not** perform the experiment to obtain the answer.

Evidence on graph paper showing correspondence

Do not penalize for inaccurate answer.

The End