(a) Outline TWO changes that could be made to the experimental procedure that would improve its accuracy.

a cost of for each repeat each length

(b) Compare Kim's and Ali's methods of calculating g and identify the better approach. 3

Ahi with a graph to show her results, this shows a constant line (increasing). Kind just shows a without a graph to better under should the multiple should be Ali's was a better approach, and would be

(c) Calculate the value of g from the line of best fit on Ali's graph. 3

 $0.57^{2} - 4.06125$ $0.67^{2} - 4.080$ 0.08 0.11 $0.62^{2} - 4.27111$ $0.70^{2} - 4.087$ 0.04 0.12 $0.65^{2} - 4.225$ 0.1 0.1 0.1 0.1

End of Question 16