0 1

0

0

1

1

1

2

Thom is investigating how the extension of a spring is affected by the force applied to it. He obtains the below data.

Force (N)	Extension (cm)	Corrected extension (cm)
0	10	
1	15	
2	20	
3	25	
4	30	
5	35	
6	40	
7	50	
8	70	

Thom has incorrectly measured the spring extension for each applied force. Suggest a mistake which he may have made during his experiment.

[1 mark]



[1 mark]



What was the independent variable in this investigation?

[1 mark]



By performing appropriate calculations, determine the correct extension for each force. Write your answers into the right-hand column of the above table.

[2 marks]



On the following page, plot a graph of corrected extension against force for the spring.

[4 marks]



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