# Dealing With Data: Answers

Multiple Choice: 1. C; 2. A; 3. D; 4. C; 5. C

1. (a) Table 3: Time for the reaction of ($HCl_{(aq)}$ and Mg) at varying temperatures

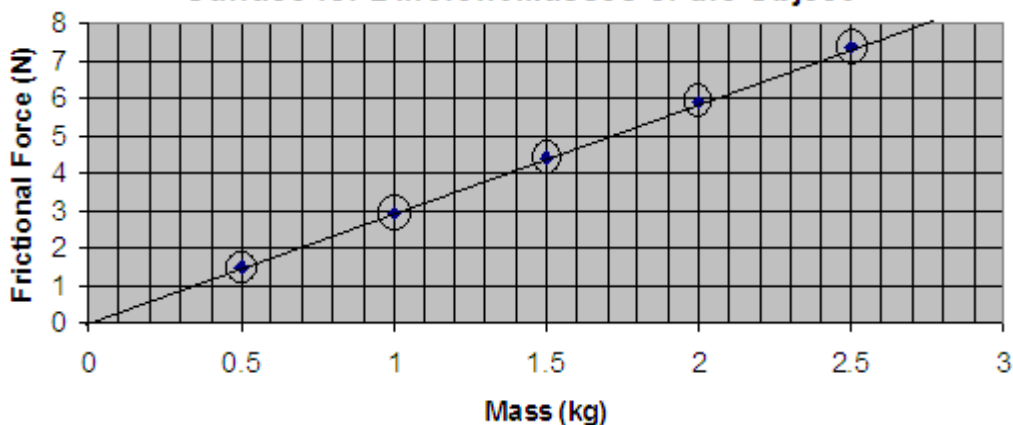| Temperature (°C) | 5.0 | 10.0 | 15.0 | 20.0 | 25.0 |
|---|---|---|---|---|---|
| Time for reaction (s) | | | | | |

*Note that the table is numbered and titled, and the title is detailed. Note also that the units are in the row headings of the table and the values in the table show the number of decimal places to which the value was measured (use the "Number Format" option under the Table menu to set the number of decimal places when using a computer).*

(b) Table 4: Current through a simple circuit of varying resistance

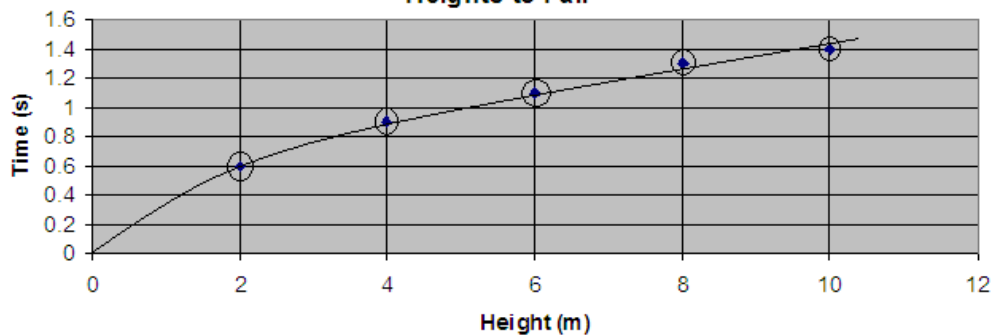| Resistance (Ω) | 10.0 | 20.0 | 30.0 | 40.0 | 50.0 |
|---|---|---|---|---|---|
| Current (A) | | | | | |

2.



Graph 1: Frictional Force Between an Object and a Surface for Different Masses of the Object

3.



Graph 2: Time Taken for an Object Dropped from Different Heights to Fall

4.  As mass increases, the frictional force between an object and a surface increases linearly.
As height increases, the time it takes an object dropped from that height to fall increases at a decreasing rate.