**The perfect graph**

The perfect graph must contain the following:

* A clear and descriptive title beginning with “Graph to show…”
* Labelled axes with units
* Independent variable on the x-axis and dependent on the y-axis
* Data points represented as small dots or crosses
* A line of best fit:
  + Straight if the data points show a linear relationship
  + Curved if the data points show a curved or exponential relationship
  + None if there is no relationship
* Grid lines on the background of the graph so that x and y values can be viewed more easily

Use Microsoft Excel to make the three following graphs:

|  |  |
| --- | --- |
| Molarity of HCl solution (mol/dm3) | Reaction time (secs) |
| 0.1 | 3.8 |
| 0.2 | 6.2 |
| 0.3 | 13.1 |
| 0.4 | 28.4 |
| 0.5 | 60.7 |

|  |  |
| --- | --- |
| Height (m) | Shoe size (no unit) |
| 1.80 | 12 |
| 1.50 | 8 |
| 1.70 | 10 |
| 1.60 | 9 |
| 1.40 | 5 |

|  |  |
| --- | --- |
| Age (Years) | Time taken to complete formulation (mins) |
| 14 | 5 |
| 15 | 3 |
| 16 | 7 |
| 17 | 2 |
| 18 | 4 |