# Selecting scales for plotting graphs

***Education in Chemistry***September 2018  
[rsc.li/2wa2u56](https://rsc.li/2wa2u56)

**Evaluate the scales**

The same data set is plotted in each pair of graphs below. For each pair, decide which graph has the most appropriate scale, and provide a justification.

Q1

Q2

Q3

Q4

## Appropriate or not?

For each of the following datasets and graphs: (i) decide if the scale is appropriate; and, (ii) re-plot using an appropriate scale, where necessary.

|  |
| --- |
| **Dataset 1** |
| 6 |
| 8 |
| 11 |
| 12 |
| 15 |

|  |
| --- |
| **Dataset 2** |
| 1 |
| 2 |
| 3 |
| 9 |
| 23 |

|  |
| --- |
| **Dataset 3** |
| 5 |
| 8 |
| 9 |
| 11 |
| 12 |

|  |
| --- |
| **Dataset 4** |
| 7 |
| 8 |
| 10 |
| 15 |
| 16 |

|  |
| --- |
| **Dataset 5** |
| 3 |
| 6 |
| 9 |
| 12 |
| 30 |

|  |
| --- |
| **Dataset 6** |
| 28 |
| 30 |
| 31 |
| 35 |
| 36  37 |

|  |
| --- |
| **Dataset 7** |
| 14 |
| 18 |
| 20 |
| 22 |
| 29 |
| 31 |