

Selecting scales for plotting graphs

Education in Chemistry

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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

Graph 1



Graph 2



Q2

Graph 1



Graph 2



Q3

Graph 1



Graph 2



Q4

Graph 1



Graph 2



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.

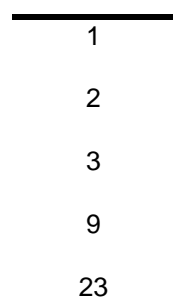
Dataset 1



Graph 1



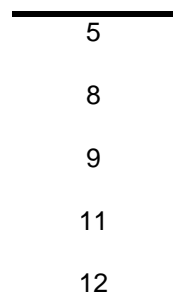
Dataset 2



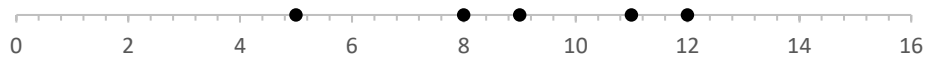
Graph 2



Dataset 3



Graph 3



Dataset 4

-
- 7
 - 8
 - 10
 - 15
 - 16

Graph 4



Dataset 5

-
- 3
 - 6
 - 9
 - 12
 - 30

Graph 5



Dataset 6

-
- 28
 - 30
 - 31
 - 35
 - 36
 - 37

Graph 6



Dataset 7

-
- 14
 - 18
 - 20
 - 22
 - 29
 - 31

Graph 7

