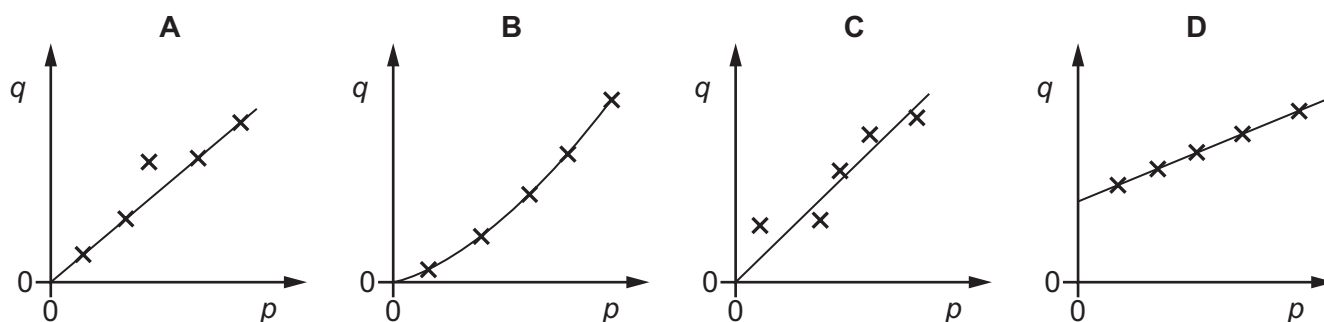


- 6 Two quantities  $p$  and  $q$  are directly proportional to each other.

Experimental results are taken and plotted in a graph of  $q$  against  $p$ .

Which graph shows there were random errors in the measurements of  $p$  and  $q$ ?



- 7 A man of mass 75.2 kg uses a set of weighing scales to measure his mass three times. He obtains the following readings.

	mass / kg
reading 1	80.2
reading 2	80.1
reading 3	80.2

Which statement best describes the precision and accuracy of the weighing scales?

- A** not precise to  $\pm 0.1$  kg and accurate to  $\pm 0.1$  kg  
**B** not precise to  $\pm 0.1$  kg and not accurate to  $\pm 0.1$  kg  
**C** precise to  $\pm 0.1$  kg and accurate to  $\pm 0.1$  kg  
**D** precise to  $\pm 0.1$  kg and not accurate to  $\pm 0.1$  kg