

- 2 Four students A, B, C and D carry out experiments to determine  $g$ . Each student takes five measurements for  $g$ .

Which student has a comparatively small systematic error but a comparatively large random error?

A $g/\text{ms}^{-2}$	B $g/\text{ms}^{-2}$	C $g/\text{ms}^{-2}$	D $g/\text{ms}^{-2}$
9.50	9.83	9.47	9.62
9.62	9.83	9.52	9.93
9.81	9.80	9.50	9.81
9.61	9.82	9.56	9.92
9.48	9.79	9.52	9.79

- 3 A measurement of the speed with which a liquid flows through a pipe is called fluidite.