

- 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?

<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
$g/\text{ms}^{-2}$	$g/\text{ms}^{-2}$	$g/\text{ms}^{-2}$	$g/\text{ms}^{-2}$
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 mass with which a liquid flows through a pipe is called fluidity.