

- 5 Four students each made a series of measurements of the acceleration of free fall  $g$ . The table shows the results obtained.

Which set of results could be described as precise but **not** accurate?

	$g/\text{ms}^{-2}$			
<b>A</b>	9.81	9.79	9.84	9.83
<b>B</b>	9.81	10.12	9.89	8.94
<b>C</b>	9.45	9.21	8.99	8.76
<b>D</b>	8.45	8.46	8.50	8.41

- 6 An object accelerates in a direction that is always perpendicular to its motion.

What is the effect, if any, of the acceleration on the object's speed and direction?

	speed	direction
<b>A</b>	changes	changes
<b>B</b>	changes	constant
<b>C</b>	constant	changes
<b>D</b>	constant	constant

- 7 The acceleration of free fall on a planet P is  $\frac{1}{6}$  of the acceleration of free fall on Earth.

The mass of a body on planet P is 30 kg.

What is its weight on planet P?

- A** 4.9 N                      **B** 49 N                      **C** 180 N                      **D** 290 N