

- 1 Which quantity is measured in newton seconds (Ns)?
- A impulse
  - B moment
  - C power
  - D work done
- 2 Which measurement can be made using a micrometer screw gauge?
- A the air pressure of a tyre
  - B the diameter of a wire
  - C the turning effect of a spanner
  - D the wavelength of microwaves

- 3 A parachutist is falling at terminal velocity, without her parachute open.

She now opens her parachute.

What is the direction of her motion, and what is the direction of her acceleration, immediately after she opens her parachute?

	direction of motion of the parachutist	direction of acceleration of the parachutist
<b>A</b>	downwards	downwards
<b>B</b>	downwards	upwards
<b>C</b>	upwards	downwards
<b>D</b>	upwards	upwards

- 4 An astronaut in an orbiting spacecraft experiences a force due to gravity. This force is less than when she is on the Earth's surface.

Compared with being on the Earth's surface, how do her mass and her weight change when she goes into orbit?

	mass in orbit	weight in orbit
<b>A</b>	decreases	decreases
<b>B</b>	decreases	unchanged
<b>C</b>	unchanged	decreases
<b>D</b>	unchanged	unchanged