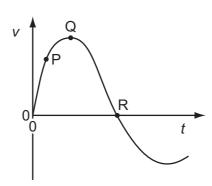
7 The graph shows how velocity *v* varies with time *t* for a bungee jumper.



At which point is the bungee jumper momentarily at rest and at which point does she have zero acceleration?

	jumper at rest	jumper with zero acceleration
Α	Q	Р
В	Q	R
С	R	Q
D	R	R

8 An aeroplane travels at an average speed of 600 km h<sup>-1</sup> on an outward flight and at 400 km h<sup>-1</sup> on the return flight over the same distance.

What is the average speed of the whole flight?

- **A**  $111 \,\mathrm{m}\,\mathrm{s}^{-1}$
- **B**  $167 \,\mathrm{m \, s^{-1}}$
- $\mathbf{C}$  480 km h<sup>-1</sup>
- **D** 500 km h<sup>-1</sup>

9 What is meant by the mass and by the weight of an object on the Earth?

	mass	weight
Α	its momentum divided by its velocity	the work done in lifting it one metre
В	the gravitational force on it	the property that resists its acceleration
С	the pull of the Earth on it	its mass divided by the acceleration of free fall
D	the property that resists its acceleration	the pull of the Earth on it

## Space for working