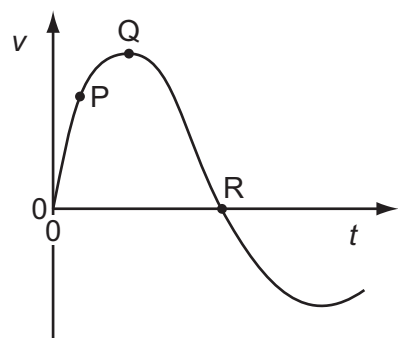


7 The graph shows how velocity  $v$  varies with time  $t$  for a bungee jumper.



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
<b>A</b>	Q	P
<b>B</b>	Q	R
<b>C</b>	R	Q
<b>D</b>	R	R

8 An aeroplane travels at an average speed of  $600\text{ km h}^{-1}$  on an outward flight and at  $400\text{ km h}^{-1}$  on the return flight over the same distance.

What is the average speed of the whole flight?

- A**  $111\text{ ms}^{-1}$       **B**  $167\text{ ms}^{-1}$       **C**  $480\text{ km h}^{-1}$       **D**  $500\text{ km h}^{-1}$

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

	mass	weight
<b>A</b>	its momentum divided by its velocity	the work done in lifting it one metre
<b>B</b>	the gravitational force on it	the property that resists its acceleration
<b>C</b>	the pull of the Earth on it	its mass divided by the acceleration of free fall
<b>D</b>	the property that resists its acceleration	the pull of the Earth on it

Space for working