

- 5 A toy car travels on a circular track at a constant speed of  $0.50\text{ m s}^{-1}$ . It passes a point on the track at time  $t = 0$  and takes a time of 40 s to travel once around the track.

The magnitude of the average velocity of the car between  $t = 0$  and  $t = 20\text{ s}$  is  $v_{20}$ .

The magnitude of the average velocity of the car between  $t = 0$  and  $t = 40\text{ s}$  is  $v_{40}$ .

What are  $v_{20}$  and  $v_{40}$ ?

	$v_{20}/\text{m s}^{-1}$	$v_{40}/\text{m s}^{-1}$
<b>A</b>	0.32	0
<b>B</b>	0.32	0.32
<b>C</b>	0.50	0
<b>D</b>	0.50	0.50