1	What is a reasonable estimate of the average kinetic energy of an athlete during a 100 m race that takes 10 s?									
	Α	40 J	В	400 J	(	2	4000 J		D	40 000 J
2	When a force $F$ moves its point of application through a displacement $s$ in the direction of the force, the work $W$ done by the force is given by									
	W = Fs.									
	How many vector quantities and scalar quantities does this equation contain?									
	Α	one scalar quantity and two vector quantities								
	В	one vector quantity and two scalar quantities								
	С	three scalar quantities								
	D	three vector qu	antii	ties						
3	What is a possible unit for the product $VI$ , where $V$ is the potential difference across a resistor and $I$ is the current through the same resistor?									
	Α	newton per second (N s <sup>-1</sup> )								
	В	newton second (Ns)								
	С	newton metre (Nm)								
	D	newton metre per second (Nms <sup>-1</sup> )								
4	In a	In an experiment, a radio-controlled car takes $2.50 \pm 0.05  \text{s}$ to travel $40.0 \pm 0.1  \text{m}$ .								
	What is the car's average speed and the uncertainty in this value?									
	A	$16 \pm 1 \mathrm{ms^{-1}}$								
	В	$16.0 \pm 0.2 \mathrm{ms^{-1}}$	I							
	С	$16.0 \pm 0.4 \mathrm{ms^{-1}}$	I							

Space for working

**D**  $16.00 \pm 0.36 \,\mathrm{m\,s^{-1}}$