	Wh	Which quantities <b>must</b> be in the same direction?							
	A	a and v only							
	В	a and F only							
	С	v and F only							
	D	<i>v</i> , <i>F</i> and <i>a</i>							
11	The momentum of an object changes from $160  \text{kg}  \text{m}  \text{s}^{-1}$ to $240  \text{kg}  \text{m}  \text{s}^{-1}$ in 2s. What is the mean resultant force on the object during the change?								
	A	40 N	В	80 N	С	200 N	D	400 N	
12	A c	car accelerates in a straight line.							
	A g	A graph of the momentum of the car is plotted against time.							
	What is evaluated by finding the gradient of the graph at a particular time?								
	Α	the acceleration of the car							
	В	the resultant force on the car							
	С	the kinetic energy of the car							
	D	the power supplied to the car							
Space for working									

**10** A force F is applied to a freely moving object. At one instant of time, the object has velocity v and acceleration a.