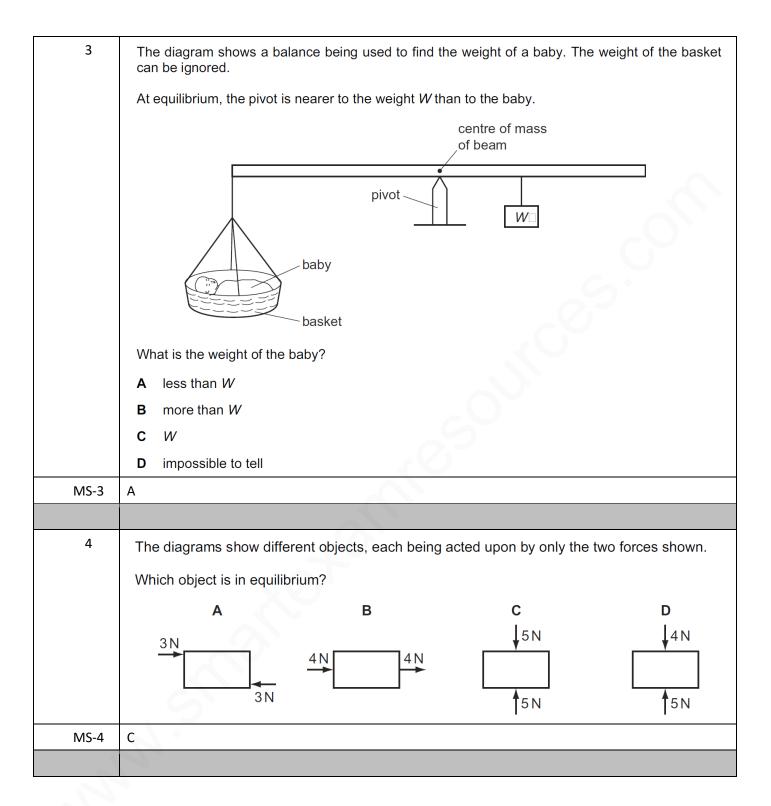
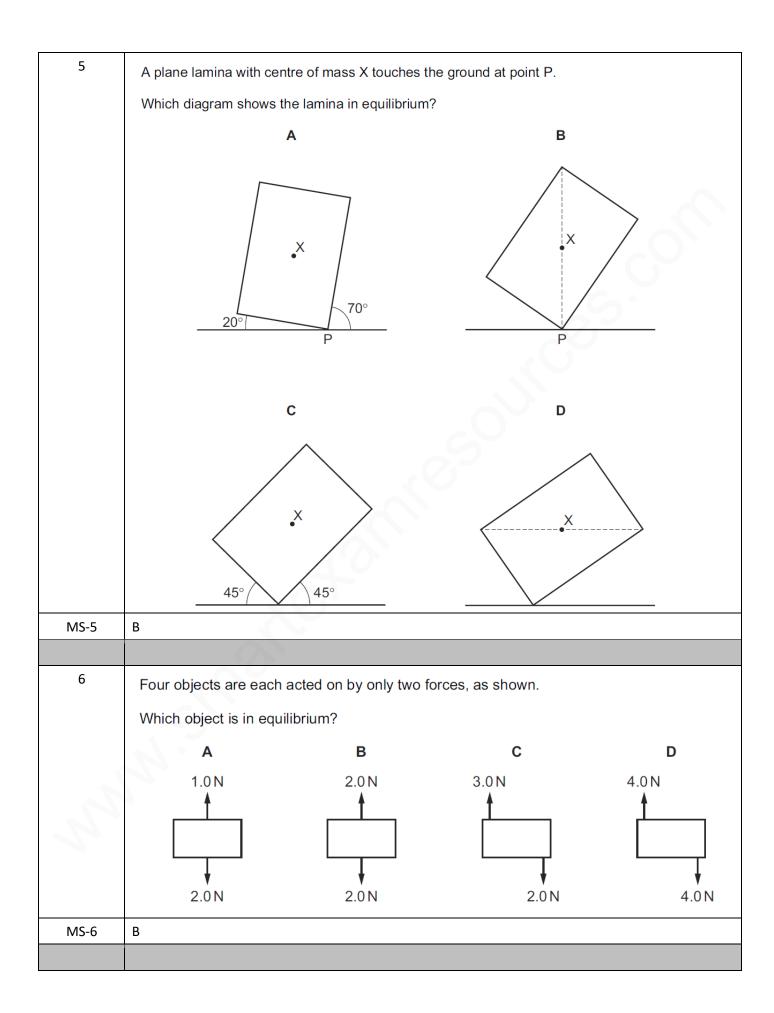
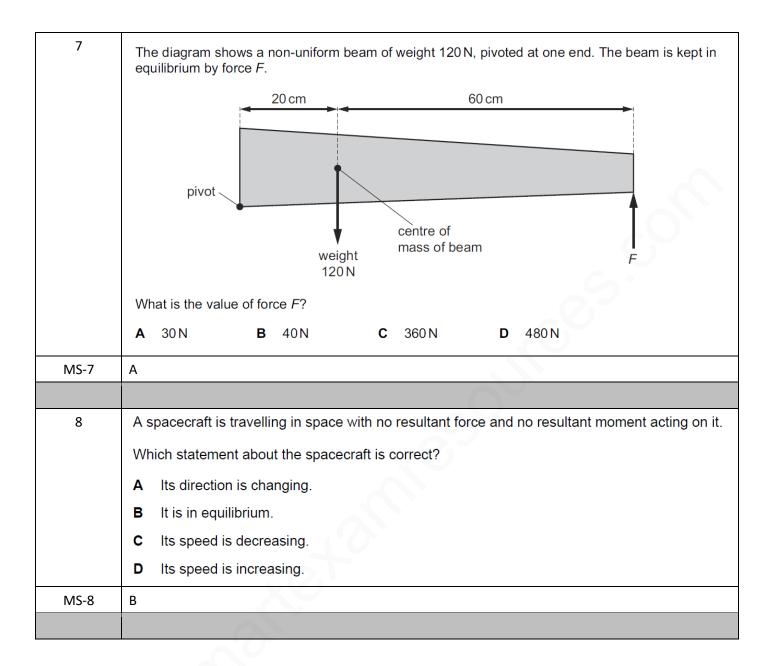
MOMENT OF A FORCE-EQUILIBRIUM-SET-1-QP				
1	What are the conditions for equilibrium?			
		resultant force acting	resultant turning effect acting	
	Α	yes	yes	
	В	yes	no	
	С	no	yes	
	D	no	no	
MS-1	D			
2	A wooden plank rests in equilibrium on two boulders on opposite sides of a narrow stream. Three forces of size <i>P</i> , <i>Q</i> and <i>R</i> act on the plank.			
	How are the sizes of the forces related?			
	$\mathbf{A} P + Q = R$			
	$\mathbf{B} P + R = Q$			
	C P = Q = R			
	D P = Q + R			
MS-2	В			







9 A heavy beam is resting on two supports, so that there are three forces acting on it. The beam is in equilibrium. Which statement is correct? All the forces are equal in value. В The forces are in one direction and their turning effects are in the opposite direction. The resultant force is zero and the resultant turning effect is zero. C D The total upward force is twice the total downward force. С MS-9 An aeroplane is in equilibrium. 10 The diagram shows the forces acting on the aeroplane. lift force from wings force from air resistance weight Which statement about the forces is correct? force from engine lift force from wings Α equal to air resistance equal to weight В equal to air resistance greater than weight C greater than air resistance equal to weight greater than air resistance greater than weight MS-10 Α

