2	(a)	State Newton's second law.		
			[1]	
	(b)	A ball of mass 65 g hits a wall with a velocity of $5.2\mathrm{ms^{-1}}$ perpendicular to the wall. The ball rebounds perpendicularly from the wall with a speed of $3.7\mathrm{ms^{-1}}$ . The contact time of the ball with the wall is $7.5\mathrm{ms}$ .		
		Calculate, for the ball hitting the wall,		
		(i)	the change in momentum,	
			change in momentum = Ns [2]	
		(ii)	the magnitude of the average force.	
			force = N [1]	
	(c)	(i)	the collision in <b>(b)</b> between the ball and the wall, state how the following apply:	
			1. Newton's third law,	
			[2]	
			2. the law of conservation of momentum.	
			[1]	
		(ii)	State, with a reason, whether the collision is elastic or inelastic.	
			[41]	