10	An astronaut on the surface of the moon drops a ball from a point 2m above the surface.	
	(a)	Without any calculations, explain why a standard model using $g = 9.8 \mathrm{ms}^{-2}$ will not be appropriate to model the fall of the ball. [1]
	The ball takes 1.6s to hit the surface.	
	(b)	Find the acceleration of the ball which best models its motion. Give your answer correct to 2 significant figures. [2]
	(c)	Use this value to predict the maximum height of the ball above the point of projection when thrown vertically upwards with an initial velocity of 15 ms ⁻¹ . [2]