2.	A small stone is projected vertically upwards with speed $39.2 \mathrm{ms}^{-1}$ from a point O .	
	The stone is modelled as a particle moving freely under gravity from when it is projected until it hits the ground 10s later.	
	Using the model, find	
	(a) the height of O above the ground,	(3)
	(b) the total length of time for which the speed of the stone is less than or equal to $24.5\mathrm{ms}^{-1}$	(3)
		(3)
	(c) State one refinement that could be made to the model that would make your answer to part (a) more accurate.	
		(1)