Total Energy of a Falling Ball

A ball, which has a mass of 1 kg, is dropped from a height of 78.4 meters. As it falls, its velocity for several heights is given below. Calculate the gravitational potential energy and the kinetic energy for each height that is given.

GPE = (m) x (a_g) x (h) KE = (m) x (v^2) / 2 a_g = 9.8 m/s^2

	Height (m)	Velocity (m/s)	GPE (J)	KE (J)	Total Energy (GPE + KE)
	78.4	0			
	73.5	9.8			
	58.8	19.6			
	34.3	29.4			
	0	39.2			