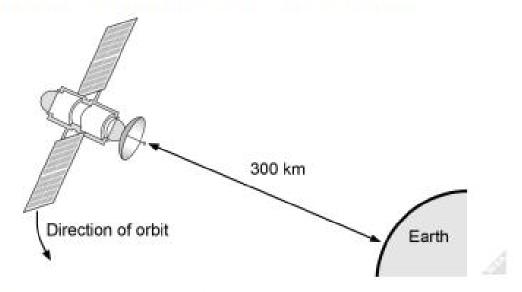
A 200 kg satellite is put into a low Earth orbit at an altitude of 300 km.



(a) Calculate the orbital speed of the satellite.

Answer \_\_\_\_\_ m s<sup>-1</sup>

(b) Calculate the orbital period of the satellite.

(2 marks)

(3 marks)

(c)	Calculate the gravitational acceleration experienced by the satellite in orbit.	(2 marks)
	Answer	m s-2
	mateur astronomer on Earth measures the orbital period of the international spaight sky at 94.7 minutes.	ace station in
(d)	Calculate the altitude of the international space station based on an orbital p of 94.7 minutes.	eriod (3 marks)