

Question number	Answer	Notes	Marks
2 (a)	any two from: MP1. different orbital radii; MP2. different orbital path lengths; MP3. different eccentricity; MP4. different speeds; MP5. different time periods;	allow specific statements involving a comparison e.g. Mercury orbits closer to the Sun Earth travels a greater distance in its orbit Mercury's orbit is more elliptical, Sun more centralised for Earth's orbit Mercury travels faster Earth takes longer to complete an orbit	2
(b)	any two from: MP1. variable orbital radii; MP2. variable orbital speed; MP3. different planes of orbit; MP4. different eccentricity; MP5. different orbital path lengths;	allow specific statements involving a comparison e.g. distance from Earth to Sun stays constant but comet's distance changes Earth orbits at constant speed but speed of comet changes comet's orbit is more elliptical, Sun more centralised for Earth's orbit comet travels a greater distance in its orbit	2

Total for question 2 = 4 marks