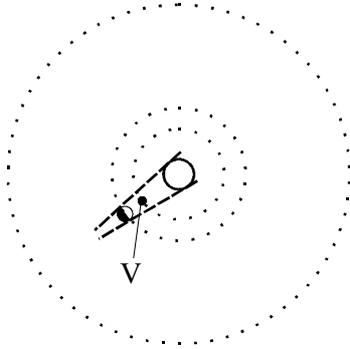


Level 6 answers

1. (a) It is between the orbit of Earth and the orbit of Jupiter 1
if more than one box is ticked, award no mark
accept the orbit drawn on the diagram provided that is clearly labelled

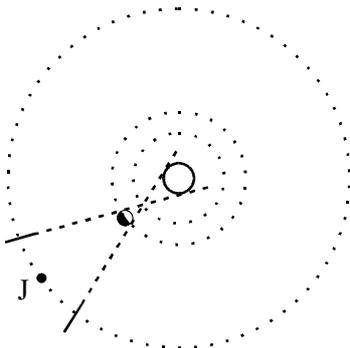
- (b) (i) an indication of any point within the limits shown 1



the mid-point of the planet must lie within the limits shown

- (ii) because the distance between Venus and the Earth changes 1
accept 'it gets closer' or 'it gets further away' or 'it is at different distances'

- (c) (i) an indication of any point within the limits shown 1

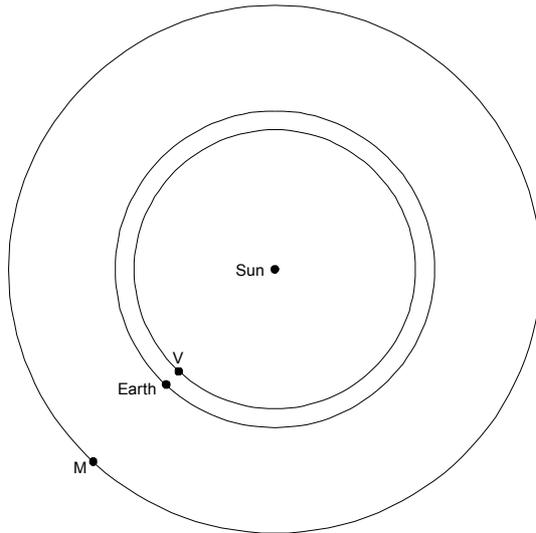


the mid-point of the planet must lie within the limits shown

- (ii) because the distance between Jupiter and the earth changes 1
accept 'because of the angle which Jupiter is seen from' or 'it gets closer' or 'it gets further away' or 'it is at different distances'
do not accept 'because of the weather or air pollution'

- (d) any **two** from 2
- Jupiter is further from the Sun **or** Venus is closer to the Sun
accept 'Jupiter is further away' or 'Venus is nearer'
 - Jupiter is further from the Earth **or** Venus is closer to the Earth
do not accept 'it is closer or further away'
 - Jupiter's clouds are less reflective **or** Venus's clouds are more reflective
accept 'Jupiter absorbs more light' or 'Venus has a higher albedo'

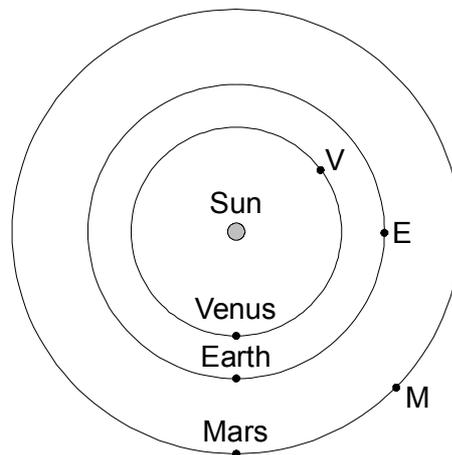
2. (a) (i) the dots for Mars, the Earth and Venus should be in a straight line, the shortest possible distance apart 1



- (ii) any **one** from 1
- it is brightest *accept 'it is brighter'*
 - it looks biggest **or** bigger *accept 'it is bigger'*
- accept 'you can see it at night'*
- (b) gravity 1
- (c) any **one** from 1
- it is circular
 - it is always the same distance from the Earth
- (d) winter 1
- any **one** from 1
- the Northern hemisphere is tilted away from the Sun *do not accept 'the Earth is tilted the Sun away from the Sun'*
 - Britain is in the part of the Earth which is tilted away from the Sun
 - the Sun's rays hit the Earth at more of an angle *accept 'the Sun appears lower in the sky' angle*
 - *accept 'night is longer than day'*

[6]

3. (a) a letter E to show that the Earth has travelled through 90° of its orbit 1

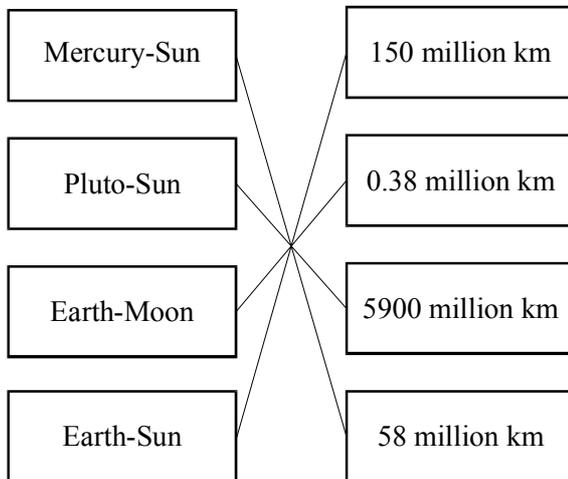


the letter E must be on the Earth's orbit

- (b) (i) a letter M to show that Mars has travelled through less than 90° of its orbit 1
the letter M must be on the orbit of Mars
- (ii) any **one** from 1
 - outer planets move more slowly
 - it moves more slowly
 - outer planets take longer to orbit
 - Mars has a longer year*accept 'the orbit of Mars is longer'*
or 'the outer planets have further to go'
accept 'because Mars takes 1.9 Earth years to orbit the Sun'
- (c) (i) a letter V to show that Venus has travelled through more than 90° of its orbit and less than 180° 1
the letter V must be on the orbit of Venus
- (ii) any **one** from
 - inner planets move more quickly
 - it moves more quickly
 - inner planets take less time to orbit
 - Venus has a shorter year*accept 'the orbit of Venus is shorter' or 'the inner planets have less far to go'*
accept 'because Venus takes 0.6 Earth years to orbit the Sun'

[5]

4. (a) 4



award a mark for each correct line
if more than four lines are drawn deduct
one mark for each extra line

(b) the Sun 1

[5]