


Please Note: It is recommended that you save your response as you complete each question.


Question 1

(1 point)  **Save**

A star has a parallax of 0.05 arcseconds. How far away is it?

- 2 parsecs
- 20 parsecs
- 10 parsecs
- 0.05 parsecs


Question 2

(1 point)  **Save**

An object with an angular size of 1 degree moves three times closer. What is its new angular size?

- 20 arcminutes
- 3 degrees
- 3 minutes of arc
- 33 seconds of arc

Question 3

(1 point)  **Save**

Most extrasolar planets discovered have been found by looking for

- absorption lines from planetary atmospheres in the light from the stars they orbit
- small points of light orbiting around nearby stars
- infrared radiation given off by the planets, which are cooler than the stars they orbit
- a wobble in a star's motion as the planet orbits about it

Question 4


(1 point)  **Save**

A problem with finding extrasolar planets via eclipses is that eclipses are visible from Earth only if

- the planet's orbit is nearly circular
- the planet is the correct distance from its star
- the planet's star is the correct size

- the planet's orbit has the correct orientation


Question 5

(1 point)  **Save**

Why is it easier to use Doppler shifts to discover binary stars than to discover planets orbiting other stars?

- Stars are more massive than planets
- Stars cause longer and deeper eclipses
- The orbital periods of binary stars are longer than those of planets
- The orbital periods of planets are longer than those of binary stars


Question 6

(1 point)  **Save**

Single-celled organisms were the only form of life on Earth for

- one hundred million years
- about one quarter of Earth's existence
- They still are
- at least half of Earth's existence


Question 7

(1 point)  **Save**

Compared with our solar system, the habitable zone for a star dimmer than the sun is

- green
- closer to the star
- the same distance from the star
- farther from the star

Question 8


(2 points)  **Save**

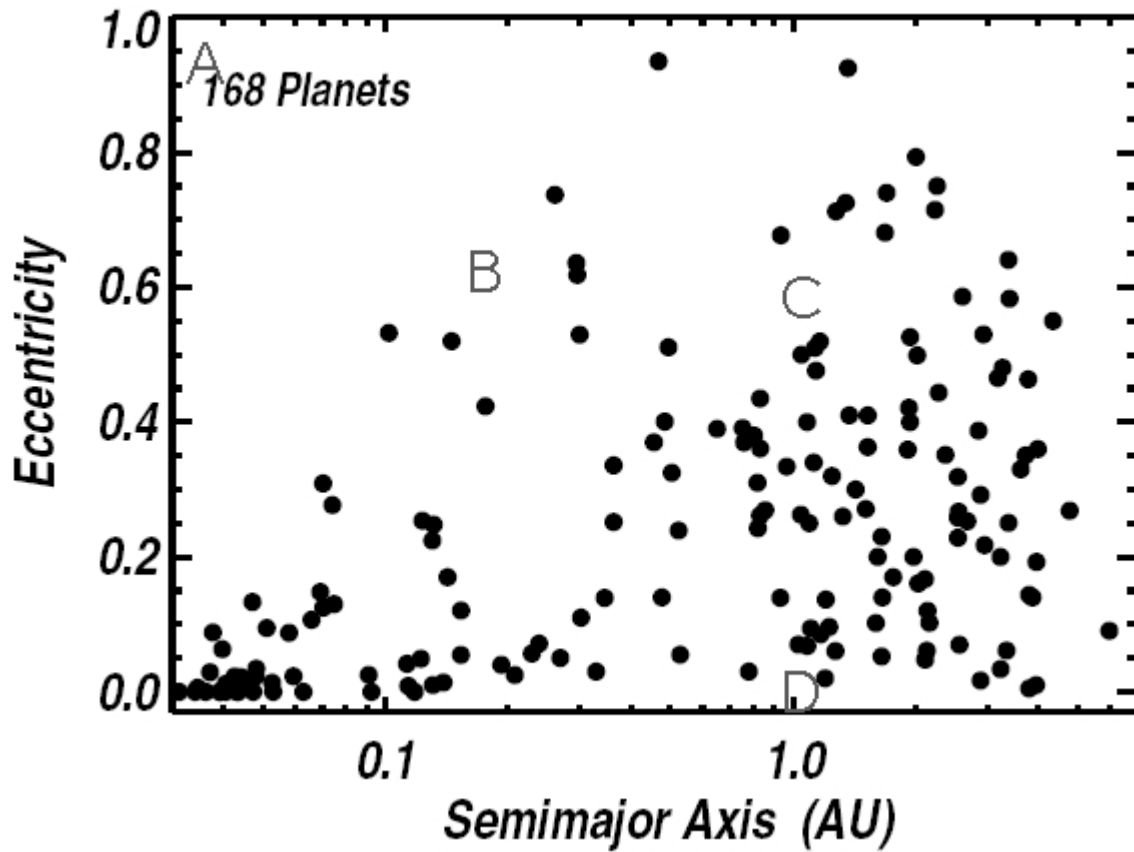
Essential characteristics of life include

- Ability to reproduce
- Ability to adapt and pass characteristics to new generations
- Singing

DNA

Question 9


(1 point)  Save

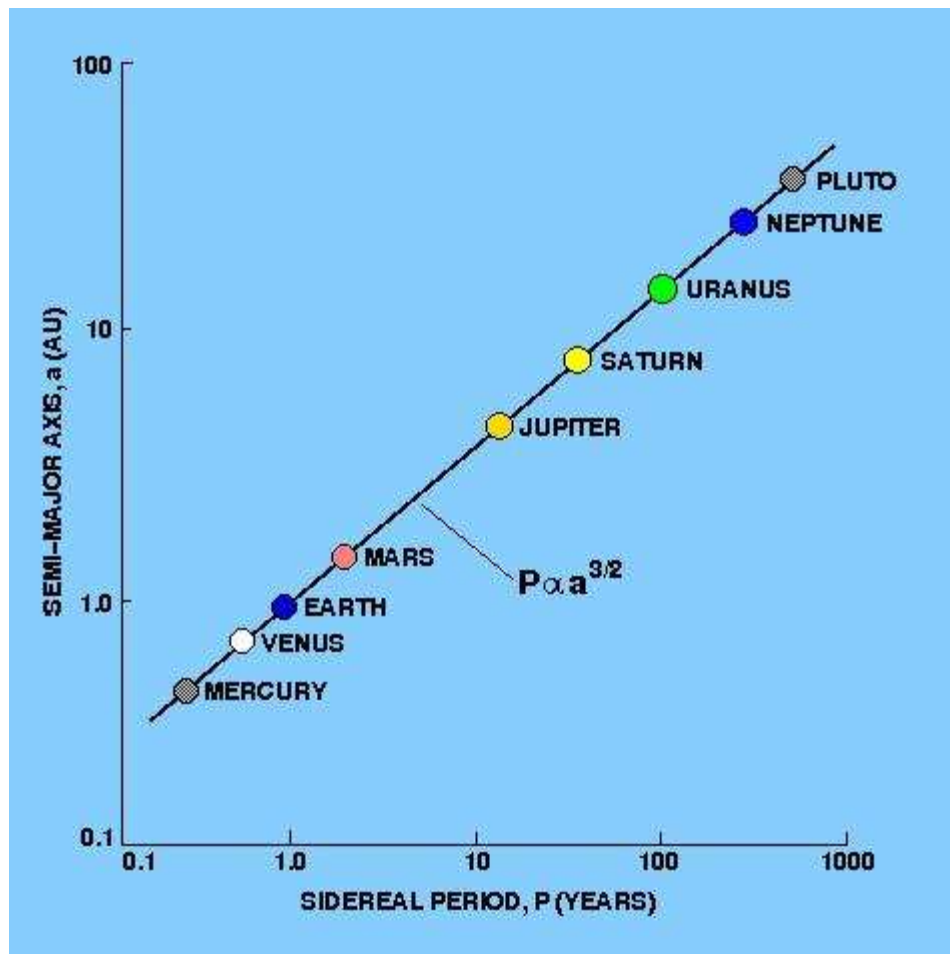


Where does Earth appear on this plot?

- A
- B
- C
- D

Question 10


(1 point)  Save



An asteroid has a circular orbit with a radius of 3 A.U. What is its orbital period?

- 1 year
- 1000 years
- 100 years
- 10 years

Question 11

(1 point)  Save

If there are 20 billion planetary systems in our Galaxy, of which 0.1% contain Earth-like planets in the habitable zone and 0.1% of those Earth-like planets produce life, then how many planets have life in the Galaxy?

- 20 million
- 20 thousand
- 20 billion

Save All Responses

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