

Video 13 on **Mercury** by Crash Course Astronomy
22 Questions



- 1) From our view, Mercury can reach a maximum separation from the Sun of _____
- a) 18°
 - b) 23°
 - c) 28°
 - d) 33°



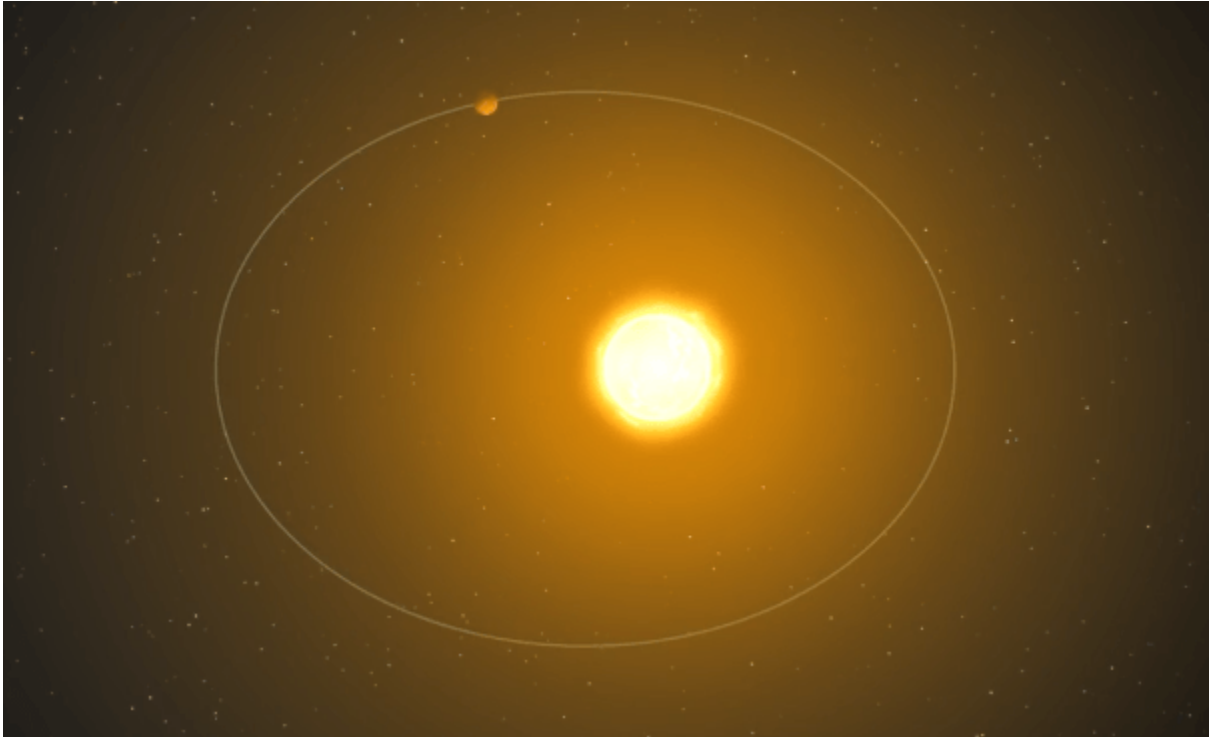
- 2) In 1639 the Italian astronomer Giovanni Zupi discovered that Mercury _____
- a) undergoes a complete cycle of phases
 - b) has an elliptical orbit
 - c) is covered in craters
 - d) has an iron core



- 3) The model of the Earth orbiting the Sun is known as _____
- a) geocentrism
 - b) heliocentrism
 - c) the Ptolemaic model
 - d) the Newtonian model



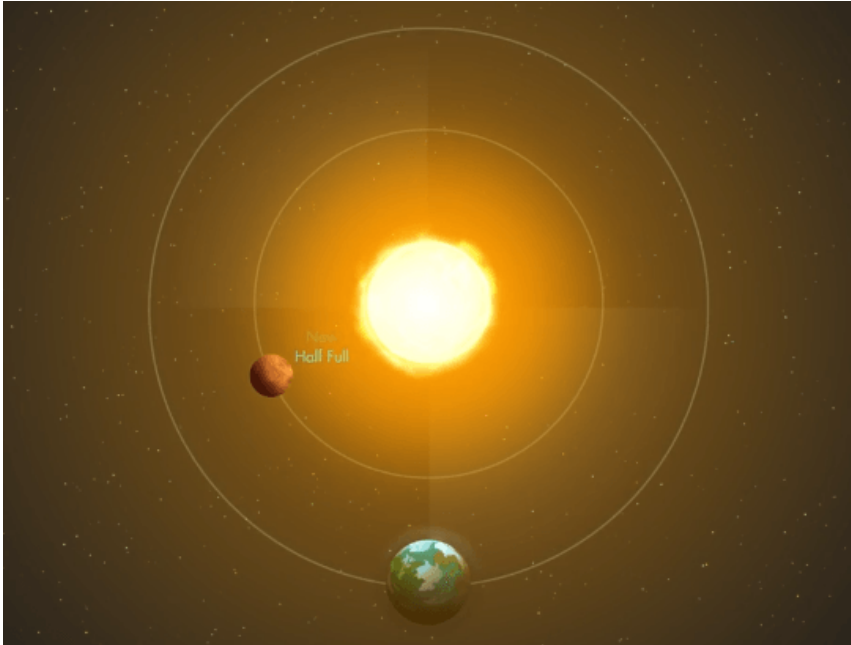
- 4) Mercury orbits the Sun at roughly _____ the distance of the Earth from the Sun.
- a) one half
 - b) one third
 - c) one quarter
 - d) one fifth



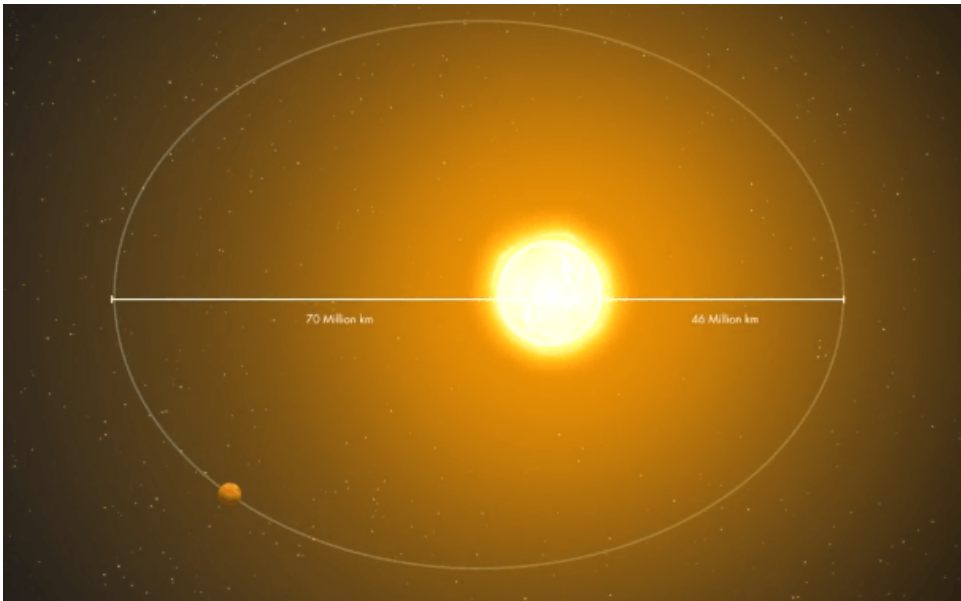
- 5) What is Mercury's orbital period?
- a) 22 days
 - b) 44 days
 - c) 66 days
 - d) 88 days



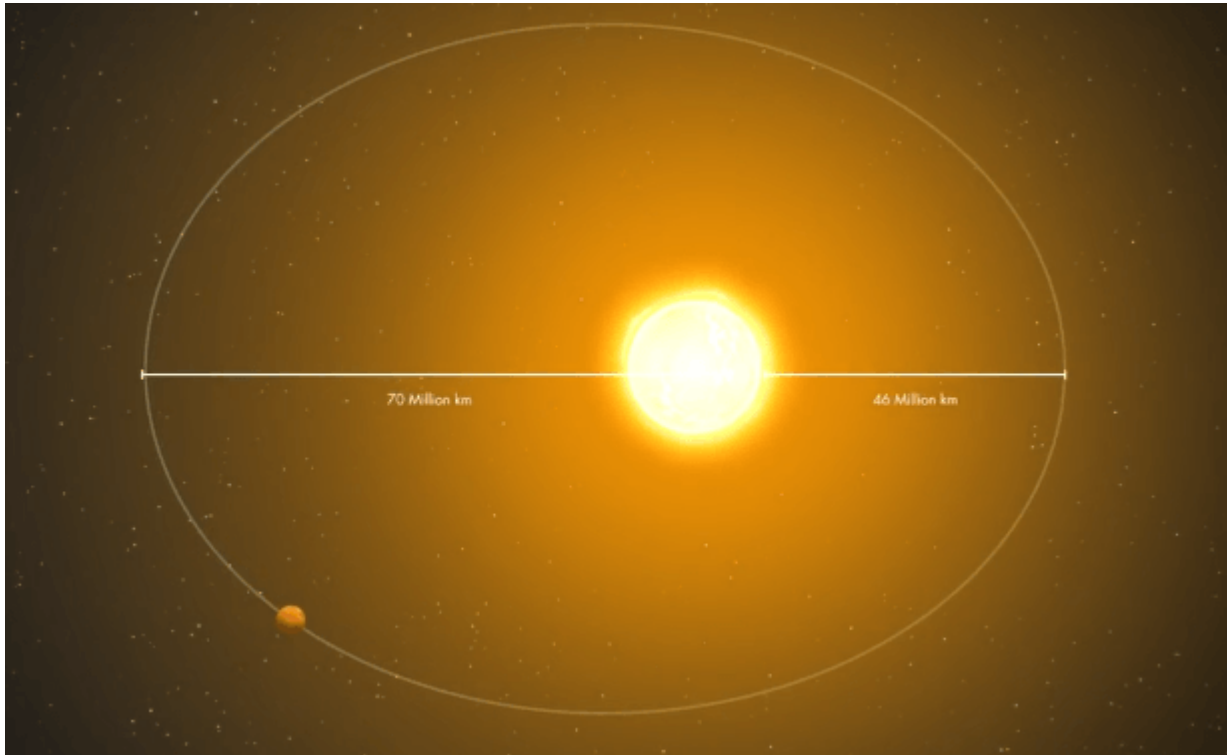
- 6) Mercury is only about 4900 kilometers in diameter, about _____ the Earth's width.
- a) one fifth
 - b) one quarter
 - c) one third
 - d) one half



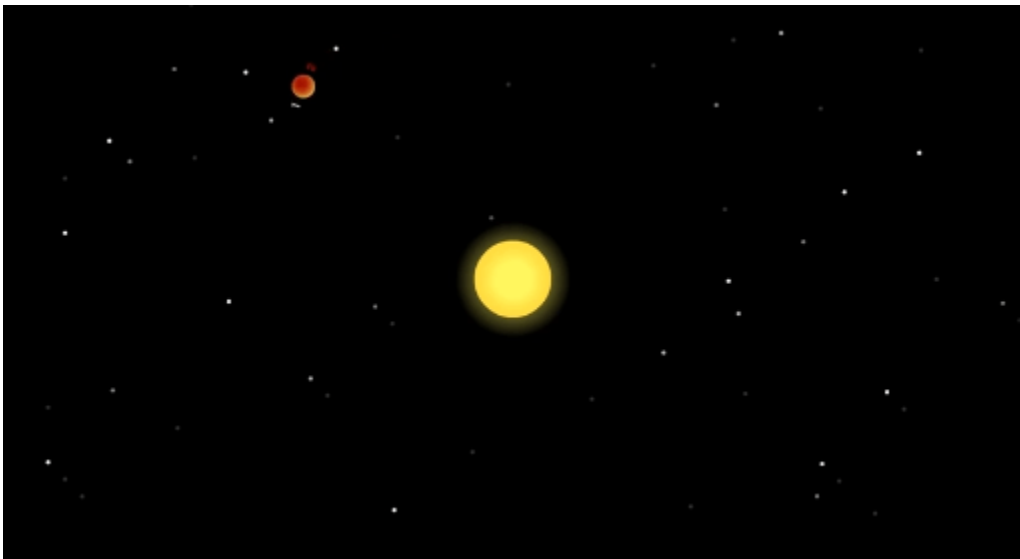
- 7) Compared to other planets, Mercury has _____
- a) the most elliptical orbit
 - b) the most circular orbit
 - c) the largest mass
 - d) the lowest density



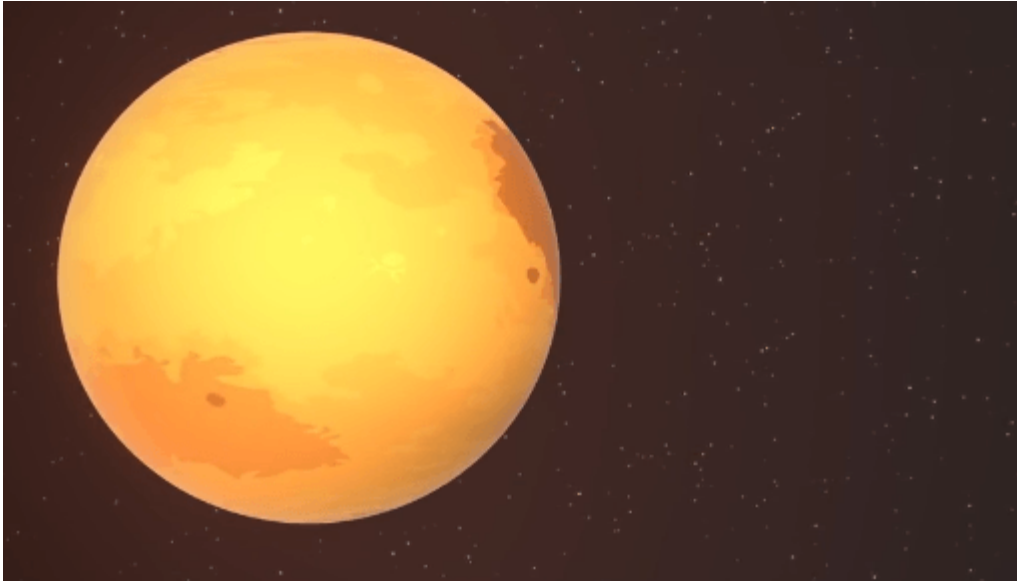
- 8) The point in the orbit of a planet at which it is closest to the Sun is called _____
- a) perihelion
 - b) aphelion
 - c) acuhelion
 - d) picohelion



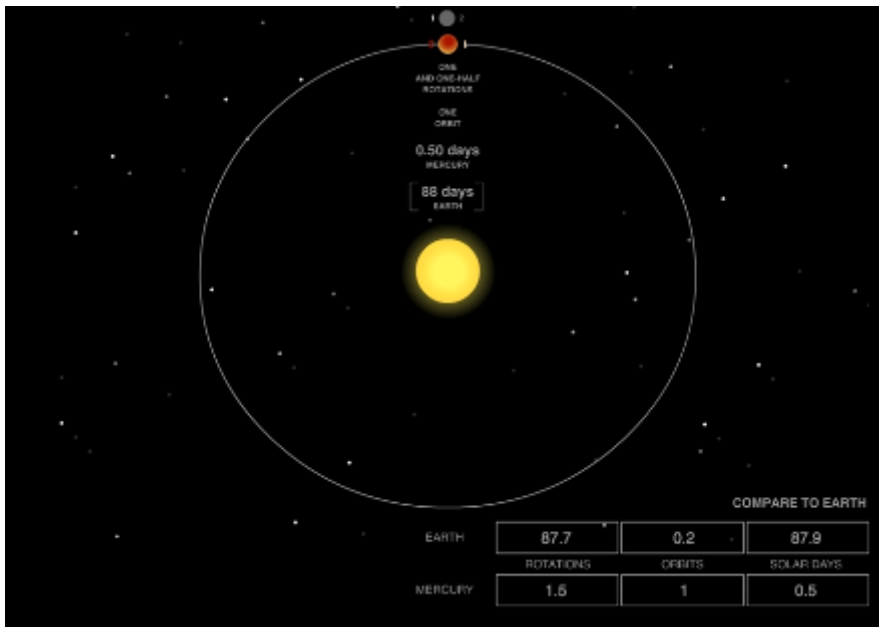
- 9) What is the term for "the point in the orbit of a planet at which it is farthest from the Sun"?
- a) perihelion
 - b) aphelion
 - c) althelion
 - d) phanhelion



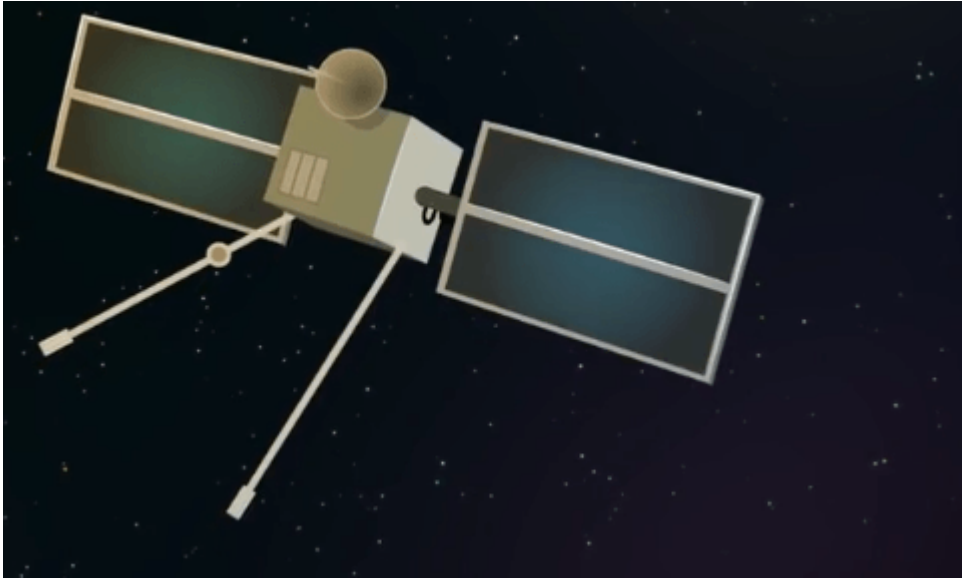
- 10) The way the physics works out, tides like _____
- a) all rational numbers
 - b) even multiples
 - c) simple multiples
 - d) odd multiples



- 11) At some point, Mercury's spin slowed to where it was _____ of its orbital period
- a) $1/2$
 - b) $2/3$
 - c) $3/4$
 - d) $4/5$



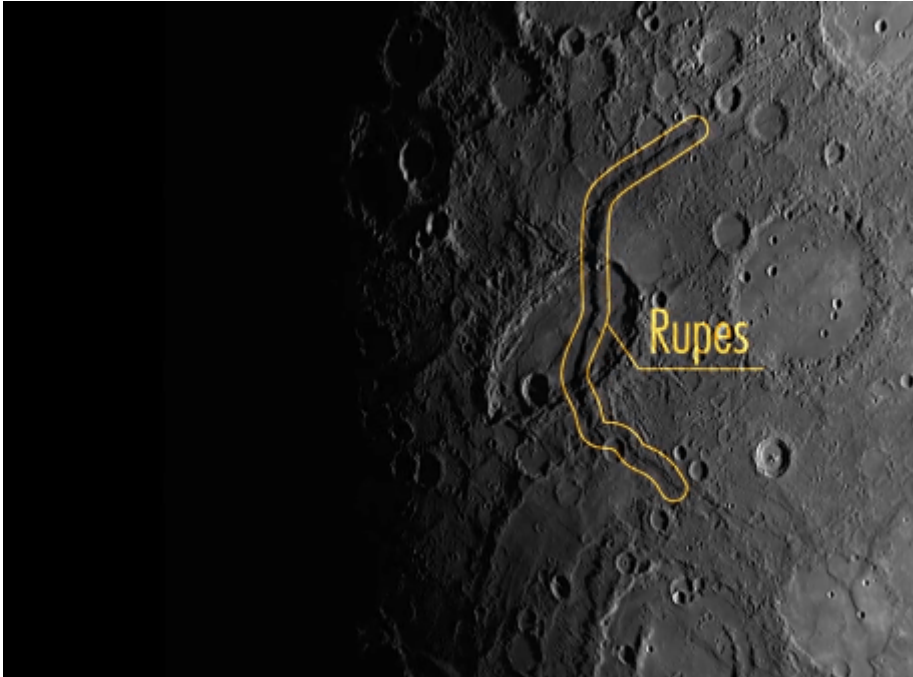
- 12) If you stand still on Mercury, how long does it take for the Sun to go around the sky once?
- a) one Mercury year
 - b) two Mercury years
 - c) three Mercury years
 - d) four Mercury years



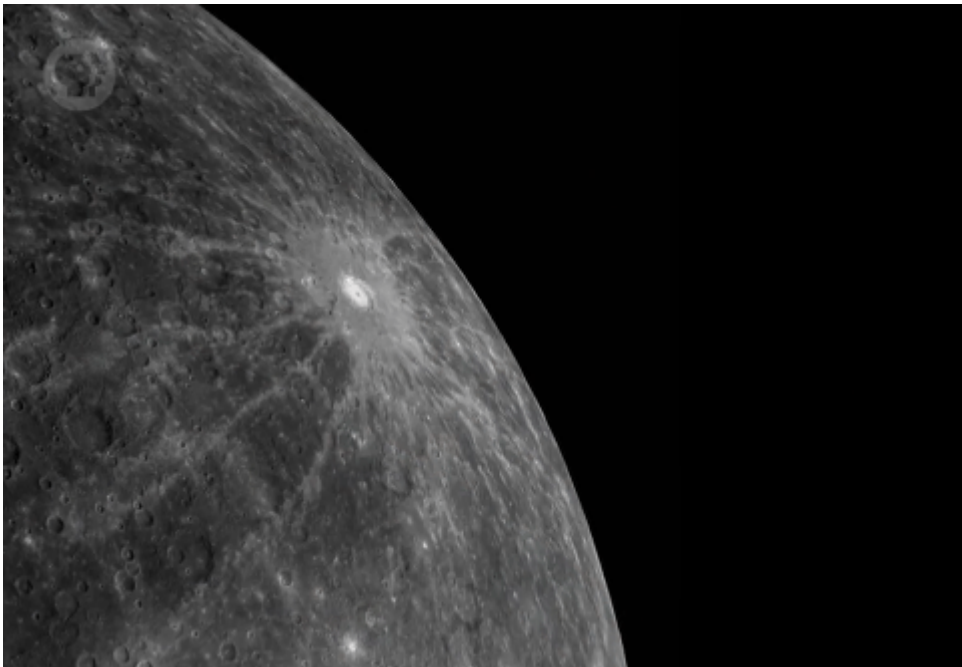
- 13) When did the Mariner 10 space probe map half the surface of Mercury?
- a) in the 1960s
 - b) in the 1970s
 - c) in the 1980s
 - d) in the 1990s



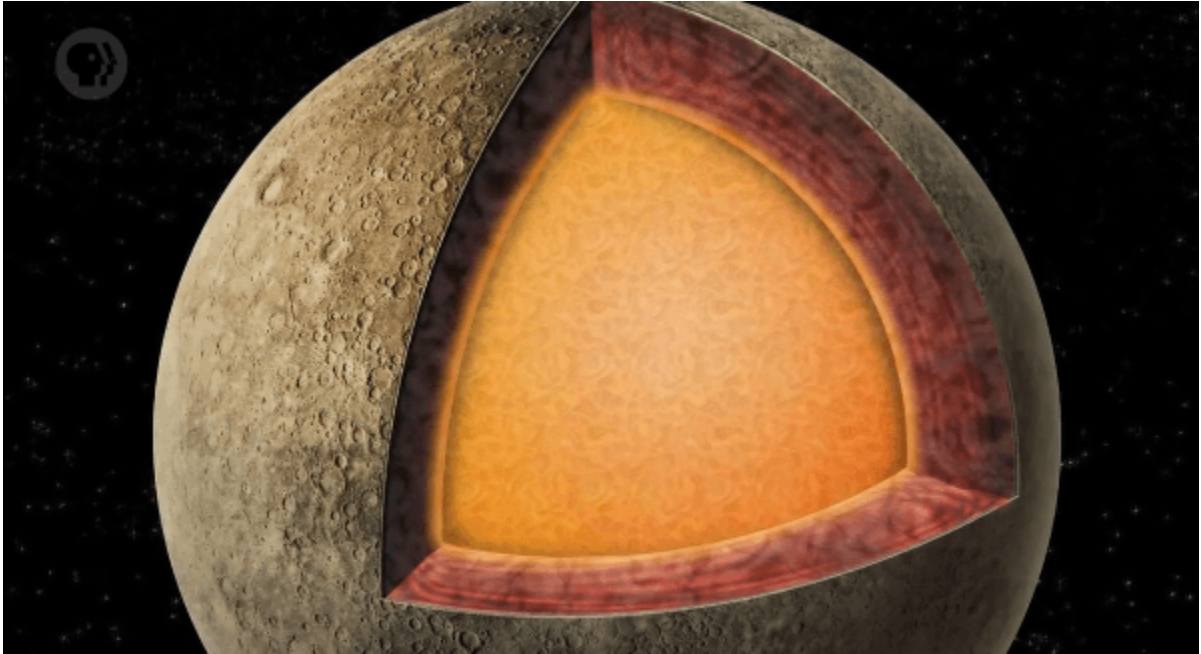
- 14) What is the Caloris Basin on Mercury's surface?
- a) a huge impact crater
 - b) a smooth plain
 - c) a large surface crack
 - d) a long lava tube



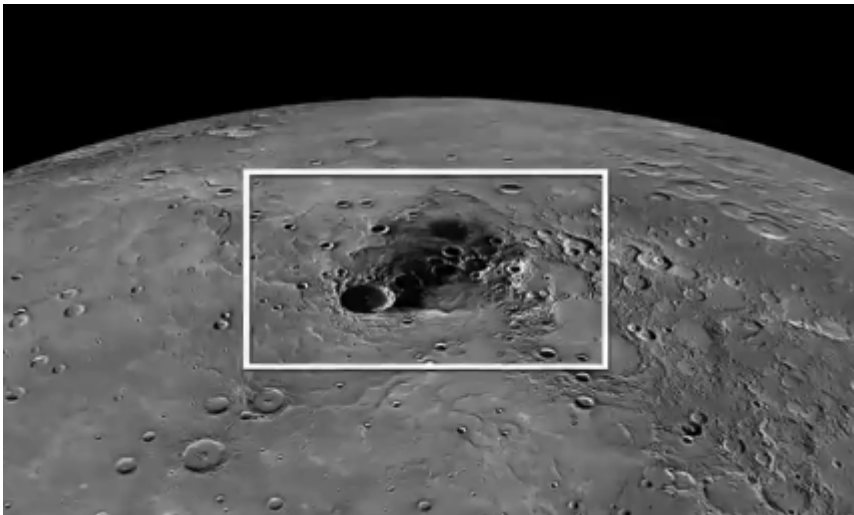
- 15) What are "rupes"?
- a) compression fold cracks
 - b) ancient lava canals
 - c) dried water beds
 - d) collapsed lava tunnels



- 16) On Mercury, craters are named after _____
- a) gods
 - b) animals
 - c) scientists
 - d) artists



- 17) Mercury's large core has a high proportion of _____
- a) nickel
 - b) cobalt
 - c) iron
 - d) carbon



- 18) The deep craters near Mercury's poles, that contain solid water, are called _____
- a) cold traps
 - b) ice buckets
 - c) chill bins
 - d) icy vats



- 19) How many naked-eye solar system objects are in the sky?
- a) five
 - b) six
 - c) seven
 - d) eight



- 20) In ancient times the planets were associated with _____
- a) gods
 - b) countries
 - c) elements
 - d) months of the year



21) Of the gods, Mercury was the _____

- a) Roman god of war
- b) Greek god of the sky
- c) Roman messenger god
- d) Greek fire god



22) Which planet is closest to the Sun?

- a) Mercury
- b) Venus
- c) Earth
- d) Mars