

Cosmic Statistics

Statistics · Answer Key · 15 Questions

1. What is the approximate statistical percentage of the total mass of the solar system contained within the Sun?

- A) 99.8%**
- B) 85.5%
- C) 92.3%
- D) 75.2%

2. How many moons does the planet Saturn have, based on current confirmed astronomical data?

- A) 146**
- B) 82
- C) 95
- D) 112

3. Which planet has the longest orbital period in our solar system, taking approximately 165 Earth years to orbit the Sun?

- A) Neptune**
- B) Uranus
- C) Saturn
- D) Jupiter

4. What is the average surface temperature of Venus, the hottest planet in our solar system?

- A) 464°C**
- B) 320°C
- C) 510°C
- D) 290°C

5. Approximately how many light-years away is the nearest star system to Earth, Alpha Centauri?

- A) 4.37 light-years**
- B) 2.15 light-years
- C) 8.92 light-years
- D) 1.02 light-years

6. What is the statistical age of the universe according to the standard Lambda-CDM concordance model?

A) 13.8 billion years

B) 10.2 billion years

C) 15.6 billion years

D) 9.4 billion years

7. How many dwarf planets are currently officially recognized by the International Astronomical Union (IAU)?

A) 5

B) 3

C) 8

D) 12

8. What fraction of the Moon's surface is visible from Earth at any given time due to synchronous rotation?

A) 50%

B) 25%

C) 75%

D) 100%

9. The asteroid belt is located statistically between the orbits of which two planets?

A) Mars and Jupiter

B) Earth and Mars

C) Jupiter and Saturn

D) Venus and Earth

10. How many Earths could fit inside the volume of the planet Jupiter?

A) 1,300

B) 500

C) 2,500

D) 800

11. Approximately how many Earth-days does it take for Mercury to complete one full rotation on its axis?

A) 58.6 days

B) 29.5 days

C) 88.0 days

D) 12.4 days

12. What percentage of the observable universe is composed of dark energy, according to current cosmological estimates?

A) 68%

B) 95%

C) 30%

D) 12%

13. How many planets in our solar system possess a ring system?

A) 4

B) 2

C) 6

D) 8

14. What is the approximate speed of light in a vacuum in kilometers per second?

A) 299,792 km/s

B) 150,000 km/s

C) 384,400 km/s

D) 450,000 km/s

15. How many confirmed exoplanets have been discovered by astronomers as of recent mission data?

A) Over 5,500

B) Under 1,000

C) Exactly 2,500

D) Over 10,000