

Cosmic Statistics

Statistics · Practice Test · 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