# Celestial Statistical Analysis

Statistics · Answer Key · 8 Questions

**1. Among the eight planets in our solar system, which planet exhibits the highest orbital eccentricity according to long-term statistical orbital data?**

A) Mars
**B) Mercury**
C) Venus
D) Saturn

**2. Statistical analysis of the exoplanet census indicates that which type of planet is the most common confirmed detection in our galaxy to date?**

**A) Super-Earths**
B) Gas Giants
C) Terrestrial planets
D) Ice Giants

**3. Based on the luminosity statistics of main-sequence stars, approximately what percentage of stars in the Milky Way are classified as M-type red dwarfs?**

A) ~20%
B) ~50%
**C) ~75%**
D) ~95%

**4. The statistical distribution of the solar system's mass is heavily skewed; approximately what percentage of the total mass is contained within the Sun?**

**A) 99.86%**
B) 98.20%
C) 95.50%
D) 92.15%

**5. According to the statistical measurements of the cosmic microwave background radiation by the Planck mission, what is the age of the universe expressed in billions of years?**

A) 12.8
**B) 13.8**
C) 14.2
D) 15.1

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**6. In terms of statistical rotational velocity, which planet has the shortest sidereal day length, completing a rotation in approximately 9.9 hours?**

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

**7. Statistical data regarding the composition of the universe indicates that Dark Energy accounts for approximately what portion of the total mass-energy density?**

A) 45%
**B) 68%**
C) 82%
D) 91%

**8. Comparing the axial tilt statistics of the major planets, which planet holds the highest value at approximately 97.7 degrees?**

**A) Uranus**
B) Neptune
C) Venus
D) Pluto

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