Celestial Statistical Analysis

Statistics · Practice Test · 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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