

Math in the Cosmos: Easy Space Facts

Mathematics · Answer Key · 10 Questions

1. What geometric shape best describes the overall form of most planets?

- A) Square
- B) Triangle
- C) Cube
- D) Sphere**

2. How many major planets are recognized in our Solar System?

- A) 7
- B) 8**
- C) 9
- D) 10

3. What unit is often used by astronomers to measure vast distances between stars and galaxies?

- A) Kilometers
- B) Miles
- C) Light-years**
- D) Meters

4. The path a planet takes around the Sun is mathematically described as which shape?

- A) A perfect circle
- B) A wavy line
- C) An ellipse**
- D) A straight line

5. Approximately how long does it take for sunlight to travel from the Sun to Earth?

- A) 8 seconds
- B) 8 minutes**
- C) 8 hours
- D) 8 days

6. How many natural moons orbit Earth?

- A) 0
- B) 1**
- C) 2
- D) 3

7. What mathematical concept helps us identify patterns of stars in the night sky, often grouped into constellations?

- A) Subtraction
- B) Geometry**
- C) Division
- D) Multiplication

8. Which scientist developed mathematical laws to describe planetary motion and universal gravitation?

- A) Albert Einstein
- B) Isaac Newton**
- C) Galileo Galilei
- D) Nicolaus Copernicus

9. What mathematical scale is commonly used to measure temperatures in space, where absolute zero is a key reference point?

- A) Celsius
- B) Fahrenheit
- C) Kelvin**
- D) Rankine

10. Our calendar system is largely based on the mathematical calculations of Earth's orbit and rotation relative to which celestial body?

- A) Mars
- B) The Moon
- C) Jupiter
- D) The Sun**