

Name \_\_\_\_\_

## How Many Moons Are There in Our Solar System?

### Open-Ended Response Questions

1. Compare and contrast the number of moons for each of the four inner planets (Mercury, Venus, Earth, and Mars) in our solar system. Explain why some planets have moons while others do not.
2. Explore the significance of studying the diversity of moons in our solar system. How can the characteristics and behaviors of moons provide insights into the history and dynamics of our cosmic neighborhood?
3. Imagine you are an astronomer tasked with discovering a new moon around a distant planet. Describe the steps you would take to identify and confirm the presence of this moon, including the equipment and observations you would use.
4. Moons come in various sizes, compositions, and orbital characteristics. Choose one moon from our solar system and delve into its unique features, including its origin, surface, and any scientific missions or explorations that have focused on it.

