Astronomy: The Solar System, Scale and Distances, Part 1

For as high as the heavens are above the earth, so great is his steadfast love toward those who fear him… Psalm 103:11

1. The solar system includes planets, asteroids, comets, moons and other objects that _____ the sun.

    a. orbit

    b. revolve around

    c. rotate around

    d. a and b

    e. a and c

    f. none are correct

2. The number of Jupiters that fit across the sun's diameter is _____.

3. How many inner planets are there? _____

4. Since they are made from rock, the inner planets are also called _____ planets.

    gaseous   **terrestrial**   **amorphous**

5. 1 astronomical unit is equal to the distance that the _____ is from the _____.

6. 1 astronomical unit is equal to how many miles? _____

7. Connect the planet with the number of astronomical units it is away from the sun.

    Mercury   **1.5 AU**

    Venus   **0.7AU**

    Earth   **0.4AU**

    Mars   **1.0AU**

8. An object is 1.2AU from the sun. How many miles is that? _____

9. An object is 1,023,000,000 miles from the sun. How many AU is that? _____