

CLASS **88** 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.

rotate

orbit

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

109

10

1,000,000

3. The number of Earths that fit across the sun's diameter is _____.

109

10

1,000,000

4. How many inner planets are there?

2

3

4

5

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

gaseous

terrestrial

6. Distances out in the solar system are so big that astronomers developed a new unit of distance called the _____.

big unit

astronomical unit

7. 1 astronomical unit is the distance that Earth is from _____, and is equal to _____ miles.

Jupiter, 93 million the sun, 93 million

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

Mercury 1.5 AU

Venus 0.7 AU

Earth 0.4 AU

Mars 1.0 AU