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## Exercise B6: Size and Scale of the Solar System

Student name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

Check the box with the correct answer.

**Question 1:** The four inner planets of the solar system in order of distance from the Sun are:

- a. Earth, Mercury, Venus, Mars
- b. Mars, Venus, Mercury, Earth
- c. Mercury, Venus, Earth, Mars
- d. Mercury, Venus, Sun, Mars

**Question 2:** What do the four terrestrial planets have in common?

- a. They all revolve about the Sun in the same direction.
- b. They are all about the same physical size.
- c. They all have the same orbital shape, that is, ellipses with the same eccentricity.
- d. They all have the same aphelion distance.

**Question 3:** What is interesting about the status of Ceres in the Solar System?

- a. It orbits outside the main asteroid belt.
- b. It is the only dwarf planet in the main asteroid belt.
- c. Its orbit carries it over the N and S poles of the Sun.
- d. It orbits the Sun in the opposite direction of the terrestrial planets.

**Question 4:** The four outer planets of the solar system in order of distance from the Sun are:

- a. Saturn, Jupiter, Uranus, Neptune
- b. Neptune, Uranus, Jupiter, Saturn
- c. Jupiter, Saturn, Uranus, Neptune
- d. Sun, Jupiter, Uranus, Neptune

**Question 5:** What do the four terrestrial planets and the four gas giant planets all have in common?

- a. They all revolve about the Sun in the same direction.
- b. They are all about the same size.
- c. They all have identical orbital shapes, that is, ellipses with the same eccentricity.
- d. They all have the same aphelion distance.

**Question 6:** What is the approximate distance in au between the Sun and the farthest gas giant planet? Use the **Angular Separation Tool** to measure the appropriate distance.

- a. 30 AU
- b. 19 AU
- c. 9 AU
- d. 5 AU

**Question 7:** The three dwarf planets in the Kuiper belt are:

- a. Pluto, Haumea, Makemake
- b. Neptune, Pluto, Ceres
- c. Neptune, Haumea, Makemake
- d. Pluto, Haumea, Uranus