

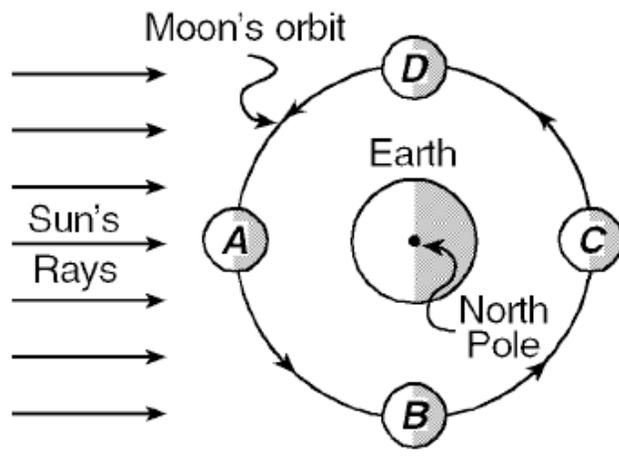
Name: _____

Date: _____ Period: _____

Worksheet: The Solar System

Questions 1 through 2 refer to the following:

The diagram below shows a model of the Moon's orbit around Earth. Letters A, B, C, and D represent four positions in the Moon's orbit.



1. What is the approximate length of time the Moon takes to travel from position A to position C?
 - a. 1 day
 - b. 15 days
 - c. 30 days
 - d. 365 days
2. As viewed from the Earth, which phase of the Moon will be seen when the Moon is at point A?
 - a. first quarter
 - b. last quarter
 - c. new moon
 - d. full moon
3. Compared to Jupiter and Saturn, Venus and Mars have greater
 - a. equatorial diameters
 - b. orbital velocities
 - c. mean distances from the Sun
 - d. periods of revolution
4. The planets known as "gas giants" include Jupiter, Uranus, and
 - a. Mars
 - b. Pluto
 - c. Earth
 - d. Saturn

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5. The average temperature of the planets
 - a. decreases with greater distance from the Sun
 - b. has no relationship to the distance from the Sun
 - c. depends only on the chemical composition of the atmosphere of each planet
 - d. increases with greater distance from the Sun

6. The Moon has more surface craters than Earth does because the Moon has
 - a. a smaller diameter than Earth
 - b. no significant atmosphere
 - c. a surface more sensitive to impacts
 - d. a stronger gravitational force

7. Which member of the solar system has a diameter of 3.48×10^3 kilometers?
 - a. Earth
 - b. Pluto
 - c. the Sun
 - d. Earth's Moon

8. The surface of Venus is much hotter than would be expected, considering its distance from the Sun. Which statement best explains this condition?
 - a. Venus has many active volcanoes.
 - b. The clouds of Venus are highly reflective.
 - c. Venus has a slow rate of rotation.
 - d. The atmosphere of Venus contains a high percentage of carbon dioxide.

9. Which planet's orbital shape would be most similar to Jupiter's orbital shape?
 - a. Uranus
 - b. Pluto
 - c. Mercury
 - d. Venus

10. A belt of asteroids is located an average distance of 503 million kilometers from the Sun. Between which two planets is this belt located?
 - a. Mars and Earth
 - b. Jupiter and Saturn
 - c. Saturn and Uranus
 - d. Mars and Jupiter