

## Assessment

**Chapter Test A****Chapter: Minor Bodies of the Solar System****MATCHING**

In the space provided, write the letter of the description that best matches the term or phrase.

- |                      |  |
|----------------------|--|
| _____ 1. asteroid    | a. a feature of the lunar surface  |
| _____ 2. ellipse     | b. a meteoroid that survives Earth's atmosphere and hits Earth's surface                         |
| _____ 3. crust       | c. the shape of the moon's orbit around Earth  |
| _____ 4. crater      | d. a small orbiting body of rock, ice, and cosmic dust that has ion and dust tails               |
| _____ 5. meteorite   | e. a moon of Mars  |
| _____ 6. comet       | f. a layer of the moon   |
| _____ 7. Phobos      | g. the flat region beyond Neptune's orbit that contains many short-period comets                 |
| _____ 8. Kuiper Belt | h. a small, rocky body that travels through space  |
| _____ 9. meteor      | i. a small object that orbits the sun, whose composition is similar to that of the inner planets |
| _____ 10. meteoroid  | j. a bright streak that occurs when a meteoroid burns up in Earth's atmosphere                   |

**MULTIPLE CHOICE**

In the space provided, write the letter of the answer choice that best completes each statement or best answers each question.

- \_\_\_\_\_ 11. A spherical region that surrounds the solar system and contains billions of comets is the
- Kuiper belt.
  - Oort cloud.
  - asteroid belt.
  - orbit of Charon.
- \_\_\_\_\_ 12. What are the second and third stages of the moon's formation?
- clumping of rocks ejected from Earth and differentiation
  - differentiation and solidification of the core
  - differentiation and meteorite bombardment of the crust
  - cooling of the mantle and orbiting of rocks ejected from Earth

**Chapter Test A *continued***

- \_\_\_\_\_ 13. On what moon of Jupiter did an engineer discover volcanoes by studying images from the *Voyager* spacecraft?
- Ganymede
  - Callisto
  - Io
  - Europa
- \_\_\_\_\_ 14. Characteristics of Ganymede and Callisto are, respectively,
- a magnetic field and craters.
  - ice sheets and volcanoes.
  - craters and ice sheets.
  - volcanoes and a magnetic field.
- \_\_\_\_\_ 15. Which of the following describe the phases of the moon?
- dark, crescent, half, gibbous, and full
  - new, crescent, quarter, gibbous, and full
  - new, eighth, quarter, gibbous, and blue
  - dark, crescent, quarter, gibbet, and full
- \_\_\_\_\_ 16. What planet has rings that are divided into hundreds of small ringlets, each containing billions of pieces of rock and ice?
- Neptune
  - Saturn
  - Uranus
  - Jupiter
- \_\_\_\_\_ 17. Which of the following best describes Jupiter's ring?
- clumpy and small
  - solid and rocky
  - thin and gaseous
  - thin with microscopic particles
- \_\_\_\_\_ 18. The gravitational interaction of Earth, the moon, and the Sun causes
- tides.
  - solar eclipses.
  - lunar eclipses.
  - phases.
- \_\_\_\_\_ 19. Notable characteristics of Io and Europa are, respectively,
- ice sheets and tides.
  - craters and a magnetic field.
  - volcanoes and an ice crust.
  - a magnetic field and volcanoes.
- \_\_\_\_\_ 20. What happens when the shadow of one celestial body falls on another celestial body?
- an umbra
  - an eclipse
  - a penumbra
  - an ellipse

Assessment

# Chapter Test B

## Chapter: Minor Bodies of the Solar System

### MATCHING

Use the diagram below to identify each phase of the moon. Write the letter of the correct name of the phase on the numbered line by each illustration.

a. third quarter

b. first quarter

c. waning gibbous

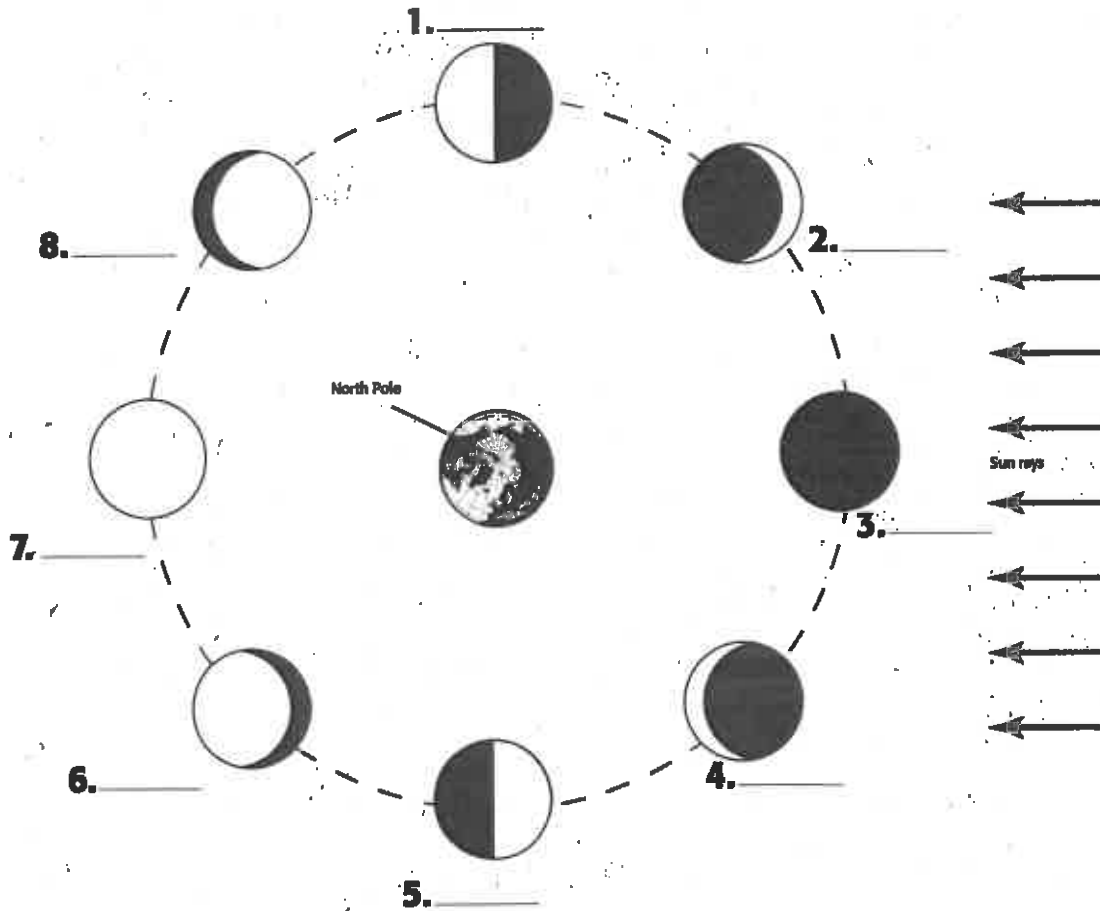
d. waxing gibbous

e. waxing crescent

f. new moon

g. waning crescent

h. full moon



**Chapter Test B continued****MULTIPLE CHOICE**

In the space provided, write the letter of the answer choice that best completes each sentence or best answers each question.

- \_\_\_\_\_ 9. What effect does the elliptical orbit of the moon around Earth have?
- The orbit is not predictable.
  - The orbit is affected by Earth's change in seasons.
  - The distance between Earth and the moon varies over a month's time.
  - The distance between Earth and the moon changes yearly.
- \_\_\_\_\_ 10. The gravitational pull of the moon on Earth, as well as the movement of Earth and the moon around each other, creates
- eclipses.
  - meteor showers.
  - hurricane-force winds.
  - tides.
- \_\_\_\_\_ 11. What are the names of the two tiny, irregularly shaped rocky moons of Mars, which may be captured asteroids?
- Pan and Atlas
  - Phobos and Deimos
  - Helene and Dione
  - Janus and Phoebe
- \_\_\_\_\_ 12. Where do astronomers think that most comets originate?
- the Oort cloud
  - the Kuiper Belt
  - the asteroid belt
  - Saturn's rings
- \_\_\_\_\_ 13. Which of the following is NOT a type of meteorite?
- stony
  - iron
  - icy
  - stony-iron
- \_\_\_\_\_ 14. Which of the following statements about Galilean moons is NOT accurate?
- Io has active volcanoes.
  - Callisto has a magnetic field.
  - Ganymede is the largest moon in the solar system.
  - Europa is covered by a massive ice sheet.
- \_\_\_\_\_ 15. A meteor is produced by a meteoroid that
- travels close to Earth.
  - is larger than 20 km.
  - burns up in Earth's atmosphere.
  - is older than the planets.
- \_\_\_\_\_ 16. Where is the Kuiper Belt located?
- beyond Neptune's orbit
  - inside Saturn's rings
  - beyond our solar system
  - outside Titan's atmosphere