
Exercise A11: Phases of the Moon

Student name: _____ Class: _____ Date: _____

Check the box with the correct answer.

Question 1: How long does it take the Moon to cycle once through all of its phases, a period known as the synodic month?

- a. 27.3 hours
- b. 27.3 days
- c. 29.5 days
- d. One month

Question 2: At what time of day would you expect the New Moon to rise?

- a. Noon
- b. Midnight
- c. Sunset
- d. Sunrise

Question 3: During the waxing phase, which side of the Moon appears illuminated by the Sun?

- a. East side
- b. West side
- c. Both sides
- d. The Moon is not illuminated

Question 4: Place your cursor over the Moon and use the pop up information to determine which of these statements is correct.

- a. The First Quarter Moon rises at midday and sets near midnight.
- b. The First Quarter Moon cannot be seen in the daytime sky.
- c. The First Quarter Moon cannot be seen in the evening sky.
- d. The First Quarter Moon rises and sets with the Sun.

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Question 5: The Full Moon is opposite the Sun in the sky, and rises as the Sun sets. What is the approximate angular separation of the Sun and the Full Moon?

- a. 180°
- b. 270°
- c. 90°
- d. 360°

Question 6: During the waning phase, which side of the Moon appears illuminated by the Sun?

- a. East side
- b. West side
- c. Both sides
- d. The Moon is not illuminated

Question 7: Place your cursor over the Moon and use the pop up information to determine which of these statements is correct.

- a. The Last Quarter Moon rises near noon and sets near midnight.
- b. The Last Quarter Moon is only visible during the nighttime.
- c. The Last Quarter Moon rises late in the evening and sets in the afternoon.
- d. The Last Quarter Moon is only visible during the daytime.

Question 8: At this position on its orbit, what phase of the Moon do we see on Earth?

- a. First Quarter
- b. New Moon
- c. Full Moon
- d. Last Quarter

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Question 9: Press the Step Time Forward button until 7 more days have elapsed. What is the phase of the Moon now?

- a. First Quarter
- b. New Moon
- c. Waxing Gibbous
- d. Last Quarter

Question 10: Press the Step Time Forward button until 7 more days have elapsed. What is the phase of the Moon?

- a. First Quarter
- b. New Moon
- c. Waxing Gibbous
- d. Last Quarter

Question 11: Press the Step Time Forward button until 7 more days have elapsed. What is the phase of the Moon?

- a. First Quarter
- b. New Moon
- c. Waxing Gibbous
- d. Last Quarter