
Exercise A1: Diurnal Motion

Student name: _____ Class: _____ Date: _____

Check the box with the correct answer.

Question 1: The Sun, Moon, planets and stars rise in the ____ and set in the ____.

- a. East, West
- b. West, East
- c. East, North
- d. West, South

Question 2: What is the rate of the Sun's diurnal motion across the sky?

- a. 360 degrees per hour
- b. 15 degrees per hour
- c. 360 degrees per year
- d. 1 degree per day

Question 3: Why do we observe diurnal motion from the surface of the Earth?

- a. The stars move around the Earth in 24 hours.
- b. The Earth rotates on its spin axis from west to east once every 24 hours.
- c. The Earth rotates on its spin axis from east to west once every 12 hours.
- d. The Earth rotates on its spin axis from east to west once every 24 hours.

Question 4: Consider both of your sunrise observations. What appears to be the relationship between the angle of the rising Sun (with respect to the horizon) and the latitude of the observer?

- a. There is no difference between latitudes.
- b. The higher the latitude, the greater the angle of the rising Sun.
- c. The lower the latitude the greater the angle of the rising Sun.
- d. The two angles are directly proportional.