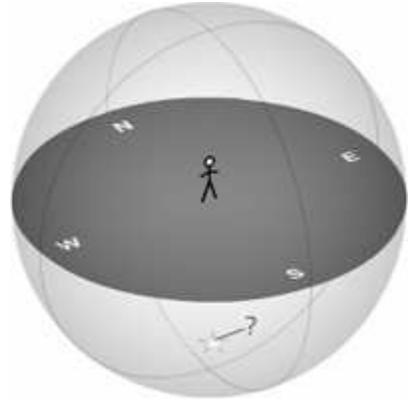


The Rotating Sky – Posttest

Answer the following questions.

Question 1: How much of the celestial sphere is visible for an observer at 60° N over the course of one 360° rotation of the earth? _____%

Question 2: To the nearest 30° , what is the azimuth of the star shown to the right? _____



Question 3: What is the coordinate feature indicated to the right?

- a) Zenith
- b) Nadir
- c) Meridian
- d) Vertical Circle
- e) Circle of constant altitude



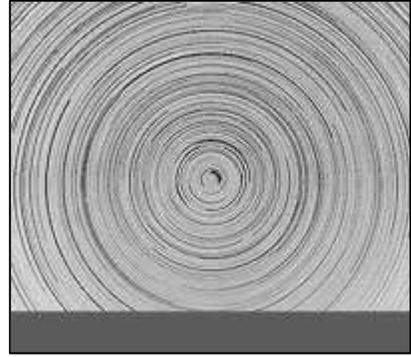
Question 4: What is the latitude of the observer in the horizon diagram to the right? (Circle N or S)

- a) 0°
- b) 20° N / S
- c) 45° N / S
- d) 75° N / S
- e) 90° N / S



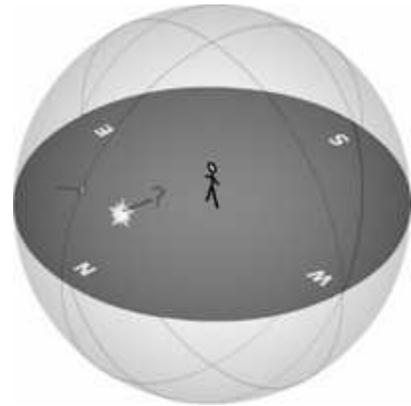
Question 5: The stars creating these star trails are moving clockwise. Where is the observer?

- a) north pole
- b) mid northern latitude
- c) equator
- d) mid southern latitude
- e) south pole



Question 6: What kind of star is the star in the horizon diagram to the right?

- a) Circumpolar
- b) Rise and Set
- c) Never-rise



Question 7: What is the circumpolar declination range for an observer at 20° S?
_____ to _____

Question 8: An observer at 15° N will see predominately what type of star?

- a) rise and set
- b) circumpolar
- c) never-rise