Earth Science Test – Chapter 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Matching: Match each term with the correct definition

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| 1. \_\_\_\_ constellation | 1. Two stars revolving around each other, one bright and one dim, which appear to vary in brightness |
| 1. \_\_\_\_ refracting telescope | 1. The measure of the brightness of a star |
| 1. \_\_\_\_ reflector telescope | 1. Clouds of gas and dust in space |
| 1. \_\_\_\_ latitude | 1. A star that may increase its brightness by twenty magnitudes in an explosion that practically destroys the star |
| 1. \_\_\_\_ longitude | 1. A unit of distance for objects outside the solar system such as stars and galaxies |
| 1. \_\_\_\_ celestial equator | 1. A very distant, starlike object that is rapidly moving away from the earth and has strong radio emissions |
| 1. \_\_\_\_ magnitude | 1. An imagined pattern in a group of stars; for modern astronomers it is an area in the sky |
| 1. \_\_\_\_ light-year | 1. Groups of millions of stars, usually elliptically arranged |
| 1. \_\_\_\_ eclipsing binary | 1. A telescope that uses a concave mirror to bring light from an object to focus |
| 1. \_\_\_\_ supernova | 1. A telescope that uses a objective lens to bring the light from an object to focus and then magnifies the light with an eyepiece |
| 1. \_\_\_\_ neutron star | 1. The projection of the earth’s equator out in space |
| 1. \_\_\_\_ star cluster | 1. An extremely dense, small star in which atomic particles combine to form neutrons |
| 1. \_\_\_\_ galaxy | 1. The distance north or south of the equator measured in degrees |
| 1. \_\_\_\_ nebula | 1. The distance east or west of the Prime Meridian measured in degrees |
| 1. \_\_\_\_ quasar | 1. A group of stars that appear to be near each other and have the same radial and proper motions |

True or False: Determine whether each statement is true or false.

1. \_\_\_\_ The gnomon was an early device that used shadows to tell time?
2. \_\_\_\_ Newton was the first person to build a telescope for viewing the heavens.
3. \_\_\_\_ The word “refract” means “to bend.”
4. \_\_\_\_ Optical telescopes must have light to operate correctly.
5. \_\_\_\_ John Bayer introduced an orderly system for identifying particular stars within a constellation.
6. \_\_\_\_ There are 103 constellations.
7. \_\_\_\_ Celestial longitude is measure in hours and minutes.
8. \_\_\_\_ We use meters to measure the distance of stars.
9. \_\_\_\_ Our solar system is located in an eclipsing binary.
10. \_\_\_\_ Our galaxy is named the Milky Way.

List: List the three functions of a telescope.

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

List: List the two factors that affect a star’s brightness.

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Short answer: Describe the difference between the way the ancient people viewed constellations and the way that modern people view constellations.

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