Astronomy Unit 2 Homework

Name: _____

Period: _____ Date: _____

- **This homework is due at the end of the unit.**
- **Write the letter of the correct answer in the blank to the left of the question.**

_____ 1. The apparent path of the sun through the celestial sphere is called the…

A. eclipse
B. ecliptic
C. ellipse

_____ 2. The position of the noontime sun varies by _____ annually.

A. 23.5˚
B. 47˚
C. 0˚

_____ 3. The maximum annual variation of the position of the sun in the sky occurs during…

A. the solstices.
B. the equinoxes.

_____ 4. You are more likely to hear people state, “The days are starting to get longer” near the time of the _____.

A. vernal equinox
B. autumnal equinox

_____ 5. At a latitude of 50˚ north, the summer solstice noontime sun will be _____ above the horizon and _____ above the celestial equator.

A. 73.5˚, 23.5˚
B. 63.5˚, 23.5˚
C. 23.5˚, 23.5˚
D. 23.5˚, 66.5˚

_____ 6. During the winter solstice, the sun will set ____.

A. due west
B. north of west
C. south of west

_____ 7. On the equator, the longest day(s) of the year is/are _____.

A. the summer solstice.

B. the equinoxes.

C. the winter solstice.

_____ 8. In Avon Lake on the winter solstice, the angle of the sun's incoming rays is _____, making the light the _____ direct of the year. Hence, it is cold.

A. 25˚, most

B. 72˚, most

C. 25˚ least

D. 72˚, least

_____ 9. During the winter solstice, Earth's northern hemisphere is tilted _____ the sun.

A. toward

B. away

_____ 10. Earth moves slowest through its orbit at the time of _____, which occurs during _____.

A. perihelion, winter

B. perihelion, summer

C. aphelion, winter

D. aphelion, summer

_____ 11. Earth will be in its perihelion position at a time when the sun appears to be _____ the celestial equator.

A. above

B. below