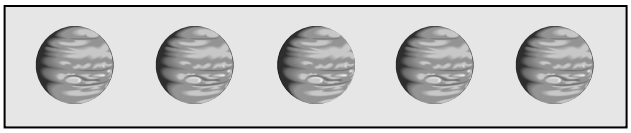
Name: _____

Date: _____ Grade: _____

SECTION QUIZ 4-1



Remember:
Score an average of 85% or higher on all three quizzes, and you may be exempt from the chapter test!



Congratulations! You have completed this section!
Answer the following questions to test your understanding of the material. When you are finished, hand in your quiz to your teacher. Each answer is worth 1.85 points.

Matching:

1. _____ astronomers
2. _____ Mercury
3. _____ kilometers
4. _____ Pluto
5. _____ meteors
6. _____ Venus
7. _____ astronomical units
8. _____ Earth
9. _____ Celsius
10. _____ Jupiter
11. _____ Fahrenheit

(a) used to measure vast distances in space
(b) measurement of temperatures in which water boils at 212º and freezes at 32º
(c) measurement of distance in most countries
(d) measurement of temperature in which water boils at 100º and freezes at 0º
(e) "shooting stars"
(f) study planets with telescopes from observatories
(g) second-smallest planet, closest to Sun
(h) largest planet
(i) hottest planet, surrounded by acid clouds
(j) designed to support life
(k) smallest planet

Multiple Choice: Choose the correct answer.

12. During sunset, the Sun appears to sink below the horizon because: _____
_____.
    (a) the Sun moves across our sky from east to west
    (b) the Sun moves across our sky from west to east
    (c) the Earth is spinning
    (d) the horizon is surrounded by a low cloud cover

13. Earth revolves around the Sun once every: _____.
    (a) day (24 hours)
    (b) month (30 days)
    (c) year (365 days)
    (d) 6 months (182.5 days)

14. Earth rotates on its axis once every: _____.
    (a) day
    (b) month
    (c) 6 months
    (d) year

SECTION QUIZ 4-1

15. What did scientists learn by studying the sunspots? _____
    (a) The Sun is a star.
    (b) The Sun rotates.
    (c) The Earth rotates.
    (d) The Earth revolves around the Sun.

16. Earth is slightly *oblate* which means: _____.
    (a) it travels in an elliptical orbit
    (b) it is flattened at the poles
    (c) it is flattened at the equator
    (d) it is tilted on its axis

17. Temperatures drop drastically between the daylight and night sides of Mercury, because: _____.
    (a) cold winds blow across the ice caps
    (b) deep craters on the night side hold in the cold air
    (c) little or no atmosphere exists to hold in the heat
    (d) masses of cool gas circulate throughout the planet's night side

18. **Using the formula (time = distance/speed). Show your work.**
    How much time is required to travel a distance of 350 miles at a speed of 50 mph? _____
    _____
    (a) 4 hours
    (b) 5 hours
    (c) 6 hours
    (d) 7 hours

Match these people and concepts:

19. _____ core	(a) Astronomer in 1500s, first to identify sunspots
20. _____ lithosphere	(b) Evidence that the Earth rotates
21. _____ day and night	(c) 78% nitrogen, 21% oxygen, 1% other
22. _____ atmosphere	(d) First astronomer to declare that Earth orbits the Sun
23. _____ Galileo	(e) Center of the Earth
24. _____ Copernicus	(f) Crust plus upper shell of the mantle

SECTION QUIZ 4-1

Fill in the blank: Choose the correct word from the WORD BANK.

WORD BANK

resolution	black hole	magnetism	gases
revolution	sunspots	Anthropic	terrestrial
Anthropomorphic	Venus	rotation	photosynthesis
elliptical	Mercury	Earth	time
energy	Anthropology		

25. The term _____ refers to a planet spinning on its axis.
26. _____ has the greatest temperature extremes of any planet.
27. _____ refers to planets orbiting the Sun.
28. Sunspot maximums affect Earth's _____ and electrical transmissions.
29. All planets orbit the Sun in _____ paths.
30. _____ from the Sun sustains life on Earth.
31. The food making process in plants is called _____.
32. Travel distances can be measured by _____ as well as linear measurements such as miles or kilometers.
33. _____ rotates opposite of most planets and is often called Earth's "sister" planet.
34. The Sun consists of a series of layers of _____.
35. Cool, dark areas on the Sun's surface are called _____.
36. Earth, Mercury, Venus and Mars are called _____ planets because they are composed of similar rock and dirt materials.
37. The concept that Earth is the only planet in the solar system so delicately balanced as to support life is called the _____ Principle.

Complete the Life Principles.

38. *"Like a ray of sunshine, a cheerful word can _____ your day."*
39. *"Know what you're running _____ if you expect to reach your destination."*
40. *"Do not let _____ cloud your view of life."*
41. *"_____ is the art of God."*
42. *" 'Tis _____ gives enchantment to the view, and robes the mountain in its azure hue."*

Use the following table to answer questions #43-47.

Planet	Distance from the Sun (km)	Distance from the Sun (AU)
Mercury	**57,900,000**	**0.387**
Venus	**108,200,000**	**0.723**
Earth	**149,600,000**	**1.000**
Mars	**227,900,000**	**1.524**
Jupiter	**778,400,000**	**5.203**
Saturn	**1,427,000,000**	**9.539**
Uranus	**2,898,600,000**	**19.182**
Neptune	**4,520,000,000**	**30.214**
Pluto	**5,899,900,000**	**39.439**

43. Which planet is closest to the Sun? _____

44. Which planet is farthest from the Sun? _____

45. Which planet is 778,400,000 km from the Sun? _____

46. How many km are in 0.723 AUs? _____

47. Express the distance from the Earth to the Sun in AUs. _____

Use the following table to answer questions #48-50.

	Mercury	Earth
Period of Rotation	**58 days**	**24 hours**
Period of Revolution	**88 days**	**365 days**

48. What is the period of rotation for Mercury? _____

49. What is the period of revolution for Earth? _____

50. Which has the longer period of rotation? _____

Use the following table to answer questions #51-54.

DIAMETERS OF THE PLANETS Earth = 1.0		
	COLUMN A	**COLUMN B**
	EXPRESSED IN KILOMETERS	**PROPORTIONAL TO EARTH (AT 1.0)**
Mercury	**4,879**	**0.38**
Venus	**12,104**	**0.95**
Earth	**12,756**	**1.00**
Mars	**6,794**	**0.53**
Jupiter	**142,984**	**11.19**
Saturn	**120,536**	**9.46**
Uranus	**51,118**	**4.01**
Neptune	**49,528**	**3.88**
Pluto	**2,302**	**0.18**

51. Which planet has a diameter about nine times larger than Earth? _____

52. Which planet has a diameter about half the size of Earth? _____

53. How many planets have diameters smaller than Earth? _____

54. Which planet is closest in size to the diameter of Earth? _____