Earth Science **Name:_____**

Astronomy Unit **Period:_____**

Review Worksheet #1

Section One: [Pages 515-518, 549-553, and 378-381]
Directions: Use your textbook and notes to assist you with answering the following questions

_____ 1. True or False-The planets in the solar system move according to strict physical laws.

COLUMN A	COLUMN B
_____ 2. Orbit	a. time it takes for a body to travel once through its path
_____ 3. Rotation	b. spinning on an axis
_____ 4. Period of revolution	c. motion of a less massive body in its path around a more massive body
_____ 5. Revolution	d. path of a body traveling around a larger body

_____ 6. True or False-The Earth rotates around the sun.

7. Why do you suppose the planets don't go flying off into space?
_____
_____
_____

_____ 8. What did Kepler observe about the movement of Mars?
a. It has a circular orbit
b. Its moons have different orbits
c. It had an ellipse-shaped orbit
d. None of the above

Mark each of the following statements True or False.

_____ 9. One astronomical unit (AU) is about 150 million kilometers.

_____ 10. Distances from the Earth to other planets can be given in Aus rather than kilometers.

_____ 11. Planets move faster when they're far from the sun, and they move slower when they're close to the sun.

_____ 12. The time it takes for a planet to travel around the sun can be used to calculate the planets average distance from the sun.

13. What question was Kepler unable to answer?
_____
_____
_____

_____ 14. True or False-Newton provided an explanation of how gravity works.

_____15. Newton's universal law of gravitation tells us that the effect of _15_ on an object depends on the distance from another object and the _16_ of each other.
_____ 16.

_____ 17. Moving two objects away from each other _____ the gravitational attraction between them. (increases or decreases)

_____ 18. True or False-Because of its velocity and the pull of gravity, the moon stays in orbit around the Earth.