

Name: \_\_\_\_\_

Period: \_\_\_\_\_

## Solar System Data

Celestial Object	Mean Distance from Sun (million km)	Period of Revolution (d=days) (y=years)	Period of Rotation at Equator	Eccentricity of Orbit	Equatorial Diameter (km)	Mass (Earth = 1)	Density (g/cm <sup>3</sup> )
SUN	—	—	27 d	—	1,392,000	333,000.00	1.4
MERCURY	57.9	88 d	59 d	0.206	4,879	0.06	5.4
VENUS	108.2	224.7 d	243 d	0.007	12,104	0.82	5.2
EARTH	149.6	365.26 d	23 h 56 min 4 s	0.017	12,756	1.00	5.5
MARS	227.9	687 d	24 h 37 min 23 s	0.093	6,794	0.11	3.9
JUPITER	778.4	11.9 y	9 h 50 min 30 s	0.048	142,984	317.83	1.3
SATURN	1,426.7	29.5 y	10 h 14 min	0.054	120,536	95.16	0.7
URANUS	2,871.0	84.0 y	17 h 14 min	0.047	51,118	14.54	1.3
NEPTUNE	4,498.3	164.8 y	16 h	0.009	49,528	17.15	1.8
EARTH'S MOON	149.6 (0.386 from Earth)	27.3 d	27.3 d	0.055	3,476	0.01	3.3

1. What is the period of revolution of Mercury? \_\_\_\_\_
2. Saturn is how many millions of km away from the sun? \_\_\_\_\_
3. What is the period of rotation for the Earth's moon? \_\_\_\_\_
4. What is the eccentricity of Venus's orbit? \_\_\_\_\_
5. Which orbit is more eccentric...Neptune or Mars? \_\_\_\_\_
6. What planet has the most eccentric orbit? \_\_\_\_\_
7. What planet has the least eccentric orbit? \_\_\_\_\_
8. What planet has the fastest period of rotation? \_\_\_\_\_
9. What planet has the slowest period of rotation? \_\_\_\_\_
10. What is the density of Neptune? \_\_\_\_\_
11. What is unique about the period of revolution vs period of rotation of Venus? \_\_\_\_\_
12. List the terrestrial planets \_\_\_\_\_
13. List the jovian planets \_\_\_\_\_
14. What object in the solar system is ALWAYS one foci? \_\_\_\_\_
15. Which planet is larger...Jupiter or Mars? \_\_\_\_\_
16. Which planet would float in water? \_\_\_\_\_
17. Which planet has a thicker atmosphere...Earth or Neptune? \_\_\_\_\_
18. Why was Pluto was declassified as a planet? \_\_\_\_\_
19. What happens to the shape of an orbit as eccentricity gets larger? \_\_\_\_\_
20. What happens to the shape of an orbit as eccentricity gets smaller? \_\_\_\_\_
21. What 2 planets have similar length of day? \_\_\_\_\_
22. What 2 planets have very similar shaped orbits? \_\_\_\_\_
23. What object has the most elliptical orbit in the solar system? \_\_\_\_\_
24. What does rotation give us on the planet? \_\_\_\_\_
25. What does revolution give us on the planet? \_\_\_\_\_