#40: The Solar System	name:	
	for the Discovery Lab on page	e 747. You will need a calculator. If we s 2 cm across), How many centimeters
2. How far apart would the Earth an	d Moon be?cm	
3. How many cm across would the	Sun be, and how far apart wou	ıld the Earth and Sun be?
cm across	cr	n apart
4. Read 757 and look at the diagra formed?	m. Explain the most commonl	y accepted theory of how the Moon was
5. Earth's axis of rotation is tilted 23	3.5 degrees. What would be th	ne big difference if it were not tilted?
6. How long does it take the Moon	o orbit (go around) the Earth o	once? (p. 764)
7. Look at the diagram atop page 7	'60. Which season correspon	ds to each number?
1. 2.	3.	4.
8. Look at diagram A on the bottom spend more time in daylight, or more		oins once (24 hours), would Helena
•	I this be in the Northern Hemis	sphere? What season would it be in the
south? North:	South:	
10. Explain what causes a solar ec	ipse? (p. 765)	
11. What causes a lunar eclipse? (o. 767)	
12. Mercury spins once everyextremely hot during it's day and exdespite being so close to the Sun?	tremely cold during its night. V	ee every 24 hours). Mercury gets Why does Mercury get so cold at night

13. One day on Venus is equal to Earth days because Venus spins so slowly.
14. The average temperature on Venus is hot enough to melt lead. Why is it so hot?
15. NASA would like to send people back to the Moon and then send a manned mission to Mars several years after that. What is the atmosphere like on Mars?
16. What are four features that have been discovered (with robotic probes) on the surface of Mars that suggest that liquid water once existed there?
17. The interiors of the gas giants (Jupiter, Saturn, Uranus, Neptune) are composed of
18. Pluto is no longer classified as a planet. List three ways that Pluto is different from the gas giants.
19. What is Charon, and why did some astronomers consider it and Pluto to be a "double planet"?
20. What are asteroids, and where in the solar system are most of them located?
21. What are the two source regions (clusters) for comets?
NOTE: Pluto is now classified as a "dwarf planet". It is one of many icy/rocky objects that orbit the Sun in the area known as the Kuiper Belt.