## Astronomy Ranking Task: The Solar System

## Exercise #2

**Description:** The table below shows some physical data for the eight planets in our solar system. The planets are assigned letters A through H.

		Ro	Axial Tilt	
Letter	Planet	(hours)	(sidereal Earth days)	(°)
Α	Mercury	1407.5	58.9	0.01
В	Venus	5832.5	244.0	177.40
С	Earth	23.9	1.00	23.45
D	Mars	24.6	1.03	25.19
E	Jupiter	9.9	0.41	3.13
F	Saturn	10.7	0.45	26.73
G	Uranus	17.2	0.72	97.77
Н	Neptune	16.1	0.67	28.32

**A. Ranking instructions:** Rank the lengths of a day on each planet.

Ranking Order: Longest 1	L 2	3	4	5	6	7	88	Shortest
Or, the length of a day is t	he same for e	each plan	et	(indicat	e with a	a check i	mark)	
Carefully explain your rea	soning for rar	nking this	way:					
B. Ranking instructions: R	ank the axial	tilts of th	e planet	s.				
Ranking Order: Largest 1	2	3 4	4 5	56	ố	7	8	Smallest
Or, the planets are all tilted by the same amount (indicate with a check mark)								

Carefully explain your reasoning for ranking this way:					
C. Which planets experience very mild to no seasonal changes? Explain.					
D. Which planets experience moderate seasonal changes (like Earth)? Explain.					
Willett planets experience moderate seasonal changes (like Lartif): Explain.					
E. Which planets experience extremely severe seasonal changes? Explain.					