Astronomy Ranking Task: The Solar System

Exercise #4

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

		_	Magnetic	Atmospheric		
		Number	Field Strength	Pressure		
Letter	Planet	of Moons	(Earths)	(Earths)*		
Α	Mercury	0	0.006	10 ⁻¹⁵		
В	Venus	0	0.00	92		
С	Earth	1	1.000	1.000		
D	Mars	2	0.00	0.006		
E	Jupiter	63	19,519	>200		
F	Saturn	62	578	>140		
G	Uranus	27	47.9	>100		
Н	Neptune	13	27.0	>100		

*Because they have no solid surfaces, atmospheric pressures for Jovian planets are estimates based on the weight of the gas at a given depth.

A. Ranking instructions: Rank the numbers of moons of the planets.

Ranking Order: Most 1 ____ 2 ___ 3 ___ 4 ___ 5 ___ 6 ___ 7 ___ 8 ___ Least

Or, the planets all have the same number of moons. _____ (indicate with a check mark)

Carefully explain your reasoning for ranking this way:

B. Ranking instructions: Rank the strengths of the planets' magnetic fields.

 Ranking Order: Strongest
 1
 2
 3
 4
 5
 6
 7
 8
 Weakest

Or, the magnetic fields of the planets are the same strength. _____ (indicate with a check mark)

Carefully explain your reasoning for ranking this way:

C. Ranking instru	ctions: Rank	the atm	ospheri	ic press	ures of t	he plan	ets.		
Ranking Order: Hi	ghest 1	2	3	4	5	6	7	8	Lowest
Or, the planets al	l have the sa	ime atm	ospheri	c pressu	ıre	_ (indica	te with	a check i	mark)
Carefully explain	your reasor	ing for r	anking t	his way	:				