Name:	
	Block:

Periodicity Review

Fill in the table for each of the elements listed.

Element	N	Mg	Br	\mathbf{Sb}	Ne	Na
metal/nonmetal/ metalloid?						
period #						
group #						
group name (if any)						
# valence electrons name another element in the same group with higher electronegativ- ity						
name another element in the same group with lower electronegativity						
name another element in the same period with higher 1^{st} ionization en- ergy						
name another element in the same period with lower 1^{st} ionization energy						
name a larger element in the same period						
name a smaller element in the same period						
charge of the most com- mon ion of this element						
is this ion larger or smaller than the neu- tral atom?	_					
is this ion larger or smaller than the noble gas with the same elec- tron configuration?						

1.	The following numbers are the ionization energy values for each of the elements in period but out of order. For each of the ionization energy values, give the element that correspondint it.						
	(a) 11.2603eV (b) 9.3226eV	(c) 13.6181ev (d) 8.298eV	(e) 5.3917eV (f) 14.5341eV	(g) 21.5645eV (h) 17.4228eV			
2.	An element has the fo $3^{rd} = 4411 \text{ kJ/mol.}$ W			mol; $2^{\text{nd}} = 3051 \text{ kJ/mol}$; know?			
3.	Which elements could electronegativities?)	take an electron fro	m phosphorus? ($I.e.$,	, which ones have higher			
4.	Arrange elements 14–2	0 from largest to sma	llest (atomic radius).				
5.	Arrange the ions that I from largest to smalles		r of electrons as argon	(from silicon to calcium)			