Name		Class		Date	
Assessment					
Quiz	Ø	4 4	,		

Section: Trends in the Periodic Table

In the space provided, write the letter of the term or phrase that best answers the question. 1. Ionization energy is the energy required to remove ____ from an atom of an element. a. the electron cloud **b.** all electrons **c.** one electron **d.** an ion 2. Across a period in the periodic table, ionization energy generally a. decreases. b. decreases and then increases. c. increases. d. remains constant. 3. The change in ionization energy down a group is due to a. increased electron shielding. **b.** decreased charge of the nucleus. c. increased neutrons in the nucleus. **d.** Both (a) and (b) 4. When determining the size of an atom by measuring the bond radius, the radius of an atom is a. equal to the distance between nuclei. b. one-half the distance between nuclei. c. twice the distance between nuclei. **d.** one-fourth the distance between nuclei. 5. Across a period in the periodic table, atomic radii generally a. decrease. b. decrease, then increase. c. increase. d. increase, then decrease. **6.** Down a group in the periodic table, atomic radii generally a. decrease. **b.** remain constant. c. increase. d. vary unpredictably.

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Quiz continued		
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7. An element with the lowest	electronegati	vity would be found in
of the periodic table.	•	
a. Group 1, Period 7		
b. Group 3, Period 4		
c. Group 5, Period 3		
d. Group 17, Period 2		
8. Refer to a periodic table an	d determine w	hich element has the lowest
electron affinity.		,
a. Cl		
b. Se		
c. Cs		· •
d. Te		
9. As the atomic number of th	e metals of Gr	oup 1 increases, the ionic
radius		
a. increases.		
b. decreases.		
c. remains the same.		
d. cannot be determined.		
10. An element with the smalle	st anionic (neg	gative-ionic) radius would be
found in of the period	c table.	
a. Group 1, Period 7	•	
b. Group 3, Period 4		
c. Group 5, Period 3		
d. Group 17, Period 2		•