Trends in the Periodic Table Worksheet

Use your knowledge of the periodic table trends to answer the following question.

1	Why does fluorine has high ionization energy than iodine?				
2	Why do elements in the same group have the same properties?				
3	What characteristics do metalloids have?				
4	Why do atoms get smaller as you move from left to right in the periodic table?				
5	Which is the smallest atom in Group 15 (VA or 5A)?				
6	Which is the smallest atom in Period 4?				
7	Which is the smallest atom in Group 11 (IB or 1B)?				
8	Which is the largest atom in Period 2?				
9	Indicate whether the following properties increase or decrease from left to right of the periodic table.				
	Atomic radius (exclude noble gases):				
	b First ionization energy:				
	[c] Electronegativity:				
10	Provide the element name and chemical symbol.				
	Period 5, Group 6 (VIB or 6B):				
	[b] Period 6, Group 1 (IA or 1A):				
	Period 4, Group 7 (VII B or 7B):				
	[d] Period 4, Group 14 (IV A or 4A):				
	Period 2, Group 10 (IIA or 2A):				
	Period 5, Group 18 (VIIIA or 8A):				

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Answers

1	Why does fluorine has high ionization energy than iodine?					
	Fluorine is a smaller atom than iodine. The valence electrons in flouring are held tightly by the nucleus. Therefore, it is challenging to remove an electron from the atom					
2	Why do elements in the same group have the same properties?					
	Because they have the same number of valence electrons.					
3	What characteristics do metalloids have?					
	Met	Metalloids have characteristics between that of metal and nonmetals.				
4	the periodic table?					
	ncreases, increasing the rons. As a result, the outer					
5	Wh	nich is the smallest atom in Group 15 (V	/A or 5A)?	Nitrogen (N)		
6	Which is the smallest atom in Period 4? Krypton (Kr)					
7	Which is the smallest atom in Group 11 (IB or 1B)? Copper (Cu)					
8	Which is the largest atom in Period 2? Lithium (Li)					
9	Indicate whether the following properties increase or decrease from left to right of th periodic table.					
	[a]	Atomic radius (exclude noble gases)	: decreas	es		
	<u>[b]</u>	First ionization energy: incr	eases			
	[c]	Electronegativity: increase	S			
10	Provide the element name and chemical symbol.					
	$\begin{bmatrix} a \end{bmatrix}$	Period 5, Group 6 (VIB or 6B):	1olybdenum (Mo)	-		
	(<u>b</u>)	Period 6, Group 1 (IA or 1A):	Cesium (Ce)	-		
	$\begin{bmatrix} \overline{c} \end{bmatrix}$	Period 4, Group 7 (VII B or 7B):	Manganese (Mn)	-		
	$[\overline{d}]$	Period 4, Group 14 (IV A or 4A):	Germanium (Ge)	_		
	$\left[\overline{e}\right]$	Period 2, Group 10 (IIA or 2A):	Boron (B)	_		
	[f]	Period 5, Group 18 (VIIIA or 8A):	Xenon (Xe)			