## Periodic table worksheet 2

1. Which of the following is the Lewis structure for magnesium?

	A) Mg * (B) • Mg	C)	• Mg •	D) * Mg *				
2.	Which one of these characteristics alone an atom using the Lewis notation?	provides	the informat	ion you need to represent				
(A	The group number		e atomic mas					
B	The period number	D) Th	e number of	protons				
3.	During ionization, an atom can become positive ion?	a positive	ion. How do	es an atom become a				
	A) It gains one or more electrons			nore electrons				
	B) It gains one or more protons	D) It l	oses one or r	nore protons				
4.	If a calcium (Ca) atom becomes a positive charges carried by this ion?	ve ion, wh	at will be the	e distribution of the				
A) 20	positive charges and 18 negative charges	C) 18 pc						
B) 20 j	positive charges and 20 negative charges	D) 20 pc	ositive charge	es and 22 negative charges				
	Which atom is correctly represented with							
A)	B) se		C)	(D)				
	•		•					
6.	An element from period 3 is represented	below in	Lewis notati	on.				
2)	•? • What is the name of this element?							
a) b)	Draw the Rutherford Bohr diagram of this element.							
٠,		11						
	$(12p^{\dagger})$	- ) )						
	(4) 3	e se	e					
7.	The salinity of water is due to the prese is one of the salts dissolved in seawater that makes up sodium chloride (NaCl).	ence of mi	ineral salts.	Sodium chloride (NaCl) to represent each atom				
			010					
	Na	6	00					
8.	Represent the Lewis notation for the following	owing.						

© C s

400

No 6 3 Ne 3

% F ?

• B •

• Be •

Lis

Li <sup>+1</sup> Be E	+3 -4 C	x-3	ō <sup>2</sup>	F I	X
Li Be E		14		Г	Ne
What group does the pictor					
x. oxyse	n egiou	f			
. What is wrong with the re	epresentation of th	e elements	below?		. 1
	- Una	dots	Should	d no	t be
Be Mg Ca	next	to e	should ach off flerent · Cac	her. S	they Sh
	- be at	de	flerent	comp	ass
Ba. Sr. Ra	· poer	its.	000		
		ex	COL		
. Each statement is incorrec					
a- O has a -2 charge beca	ause it gonates 2 e		ring a chemic	cal reaction.	
	accepts				
b- Mg has a 2 charge be	cause it donates el	ectrons du	ing a chemic	al reaction.	
+2					
c- Ar has no charge beca	use it is chemicall	v active			
Thinks no onergo book	and it is entimedia		active		
		ι.,			
d- Al has a #2 charge bed	cause it donates 2	electrons di	uring a chem	ical reaction	ı <b>.</b>
+3	3				
e- Elements within the sa	nme group form di	fterent ions	S.		
	4	he sa	ne		

electrons