Answer

Periodic Table Worksheet Fun

1. Two elements X and Y have the following properties.

Element X	Element Y	
Metallic luster	Without metallic luster	
Two valence electrons	Four valence electrons	
Located in the 4 th period	6 protons	

Which symbols from the periodic table correspond to elements X and Y respectively?

- (A) Ca and C
- B) K and B
- C) K and C
- D) Ca and B
- 2. Which of the following statements about the properties of metals is correct?
- A) They are malleable but are not shiny.
- B) They conduct electricity but are not malleable.
- C) They do not conduct electricity and are not shiny.
- D) They react with acids and conduct heat.
- 3. Four elements from the periodic table are described below.

Element A: It reacts vigorously with water and its electrons are distributed among three energy levels.

Element B: It is located in Period 3 and used to disinfect or to kill bacteria.

Element C: Its electron configuration is



Element D: Its outermost energy level is full and it uses 3 energy levels.

<u>Complete the table below by indicating the chemical symbol and the name of the chemical family for each of these elements.</u>

Element Chemical	Symbol Chemical	Family Name
Element A	Na	Alkali Metals
Element B	Cl	Halogens
Element C	Ma .	Alkaline Footh Metals
Element D	Ar	Noble I I neet Creses

- 4. An element has the following characteristics:
- It has a metallic luster.
- · It conducts electricity.
- It has 3 valence electrons.
- It is a metalloid.

What is this element?

A) Aluminum



C) Silicon

D) Sodium

5. The follow table.	ving diagı	ram represents	the Bohr-Rutherford	atomic model for an e	lement in the periodic
Which of the	followin	g is a correct st	atement about this e	lement?	
\circ))			
A) It is an alk		Be- 1e- that has 19 pro	tons and is located in	n Period 4	
B) It is a noni	metal tha	at is not very rea	active and that has 19	9 protons and 1 valence	e electron.
			is and is located in Pe	eriod 1.	
		e metal that ha			
Identify the e	element:	Potassium	(K)		
following cha	aracterist	ics: the number	of valence electrons	ments and provides spa s, the number of energy odic table, fill in the blo	y levels, chemical reactivity
Element Sy	mbol	# Valence E-	# Energy Levels	Chemical Reactivity	Family Number
Li		1	2	High	IA / I
Mg		2	3	High	IA / 2
C		4	2	Low	IXA/4
Cl		7	3	Low	VITA / 7
Ne		8	2	None	VIII A /8
 1: It is inflate 2: It is base. 3: It is disinfe 	s located e balloon s located Li s located s located ectant.	in Period 1, has is. He in Period 2, has in Period 2, has in Period 3, has	s one valence electro s two completely fille	outermost energy leven n and reacts vigorously d energy levels and is c an the closest inert gas	with water to form a chemically stable. Ne and may be used as a
8. Which elem	nent corr	esponds to eacl	n of the following sta	tements?	
	MENTS		8		
1	This ele	ement belongs t	to the halogen family	and has only 4 energy	levels.
2			ence electrons in its s		- Charles (1900) Charles
3	This ele	ement is an alka	line earth metal loca	ted in Period 3.	and the second section of the second
4	This ele	ement has only	one energy level and	it is completely filled.	
1: Bromin	ne U	Br)	2:	Boron (B)	
: Magnes	Nul	(Mg)	4:	Helium (H	e

Answer

More Periodic Table Worksheet Fun!

1. Which fan	nily is described? Give t	he name.		leniprop (de program) rediil
B- One of the C- I have 2 e D- We are un E- I will prod F- My shells G- The most H- Never fou I. I have 7 ele J. One of my	uce a salt when I mix w	e atomic number bital ith a metal ays as an element ell c number is 18	Noble Alkal Noble Noble	i Metals logens ne Earth Metals l Inert Gases i Metals l Inert Gases i Metals l Inert Gases alogens l Inert Gases
2. What elen	nent am I? (Use symbol)		
B- I am found C- I have 20 p D- I have 2 e E- I am an all F- I am a hald G- I am a me H- I have 1 va I- I am an ine J- I have 2 or K- I am the le	d in period 2 and have 3 d in family III A and use protons nergy shells and each at kaline earth metal and it ogen with 3 orbitals talloid with three energy lendere electron with 4 eart gas with 1 energy level bitals and 5 valence electron electron the following are reactive element is	3 orbitals re full n period 2 gy levels energy levels rel ctrons the alkali family.	Be Al Co Ne Be Cl Si K Ne Ne Li mon-metals.	
Elements	Characteristic 1	Characteristic 2	Characteristic 3	Metal, nonmetal or metalloid
Element A	Malleable	conducts electricity	not ductile	Metalloid
Element B	Conducts heat	Reacts with acids	Shiny	Metal
Element C	Solids, liquids and gases	Accepts electrons	No conduction	Nonmetal
4 . Explain wh	at a valence electron is	an electron	in the or	itermust shell
5 . List the ele	ements in the alkali met	al family Li, Na	, K, Rb, Cs	Fr
6. Give 2 char halogens	racteristics of the alkali	metal family. react	ive forms	a salt with
7. Explain the	commonality between	elements in the sam	e group. <u>Same</u>	# of valence e

O. How can yo	ou identify an e	element that is	a metalloid?	tas characte	to soften	both
			, As, Sb,		ligi li	
				form for each of	the following e	lements.
Lewis	Н	Не	N	F	Ве	В
Neutral	4.	He:	· Ņ.	• F.	Be.	ġ.
Ion	H	X	:N3-		Beat	B3+
Aluminum (A Na, Mg and A Cl has 3 vale	the same grou II) is a metalloi II all have the nce electrons. Te the same nu	p have the san d. same number	ne number of v	valence electrons alence electrons		T 11 - L
Aluminum (A - Na, Mg and A - Cl has 3 vale Li and Be hav	al) is a metalloi Al all have the nce electrons. The the same nu ncorrect about	p have the sand. same number mber of ions.	ne number of v			TET
Aluminum (A-Na, Mg and A-Na, Mg and A-Cl has 3 vale Li and Be have the A-Na was in Electron	Al) is a metalloi Al all have the nce electrons. Te the same nu ncorrect about	p have the sand. d. same number mber of ions. Rutherford's a	of orbits. atomic model?			T
Aluminum (A-Na, Mg and A-Na, Mg and A-Cl has 3 vale Li and Be have the A-Na was in Electron	Al) is a metalloi Al all have the nce electrons. The the same nu ncorrect about the improve Ru	p have the sand. d. same number mber of ions. Rutherford's a	of orbits. atomic model?	alence electrons		T F T F F
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Aluminum (A-Na, Mg and A-Na, Mg and Board A-Na, Material A-Na, Make a Rut	herford Bohr n	p have the sand. d. same number mber of ions. Rutherford's a therford's ator	ne number of voor of orbits. atomic model? mic model? collowing elements CI	Ale orbita		e de la Rei