Name :		Date :					
	Valen	ce Electrons and Dot Diagrams					
1	How many vala	How many valance electron do each of the following have?					
	I Li II	P III S	IV As V	C VI K			
	VII Se VIII	In IX Sr	_ X Ca XI	O XII Na			
2	Fill in the blank	S.					
	Dot Diagrams re	epresent the numbe	er of	for an			
	atom. They consist of the of the element which repr						
	the of	f the atom and	represents the	valence electrons			
3	Write the electr the following ele		alence electrons, an	d dot diagrams of			
	Element	Electron configuration	Number of valence electrons	Dot diagram			
	Magnesium						
	Phosphorous						
	Fluorine						
	Argon						
	Potassium						
	Oxygen						

Name:	Date:	
i vallic .	Dute.	

Valence Electrons and Dot Diagrams

Answers

1 How many valance electron do each of the following have?

 I
 Li
 1
 II
 P
 5
 III
 S
 6
 IV
 As
 5
 V
 C
 4
 VI
 K
 1

 VII
 Se
 6
 VIII
 In
 1
 IX
 Sr
 2
 X
 Ca
 2
 XI
 O
 6
 XII
 Na
 1

2 Fill in the blanks.

Dot Diagrams represent the number of <u>valence electrons</u> for an atom. They consist of the <u>symbol</u> of the element which represents the <u>core</u> of the atom and <u>dots</u> represents the valence electrons.

Write the electron configuration, Valence electrons, and dot diagrams of the following elements.

Element	Electron configuration	Number of valence electrons	Dot diagram
Magnesium	2.8.2	2	Mg:
Phosphorous	2.8.5	5	•P:
Fluorine	2.7	7	:F:
Argon	2.8.8	8	: Ar :
Potassium	2.8.8.1	1	K•
Oxygen	2.6	6	:0