Name:		Pd:	Date:	
SOL R	eview Packet			
****	REMEMBER REVIEW IS	TO HELP VOLLE	ADN WHAT IT	FMS VOII
	TROUBLE WITH - DO			
	RSTAND, ASK FOR HEL		BLEMS TOU	DONOI
0.,01	MOTIL ID, NORT OR HELE			
Provid	e the answers to the followin	ig questions.		
1.	How many meters are in 1.5	5 kilometers?1500m	1	
2.	How many grams are in 20	kilograms? 20000g		
3.	How many milliliters are in	3.7 liters?3700ml_		
4.	How many milligrams are i	n 6.8 grams? <u>_6800g</u> _		
Write	the following numbers in sci	entific notation		
WILL .	14 720 1 4720 × 10 ⁴	entine notation,		
6	14,729 1.4729 x 10 ⁴ 369 3.69 x 10 ² 0.0059 5.9 x 10 ⁻³			
7	0.0050 5.0 × 10 ⁻³			
1.	0.00393.9 X 10			
Give tl	ne number of significant figu	res in the following nu	mbers.	
	26,400 _ 3		100 s00 0 s 10 s	
9.	0.0140 3			
10.	Round off 26,060 to three s	ignificant figures26	5100	
99		N 17 (NA) 17 (N	22 220	
11.	Solve and express your answer	wer in scientific notation	on1.0 x 10''_	
	625 x 5200			
	0.0013 x 0.025			
12	A group measures a quanti	ty and the result is 25 (The actual va	lue is 25.6
12.	What is the percent error in		. The actual va	iuc is 25.0.
	25.9-25.6 x $100 = 1.17%$		<u>M-M</u>	' x 100 > % en
	25.6	o ciro:	A	
	- Triban			X 100 = % en Actual = theo
13.	Find the density in g/cm3 o	f a rectangular piece of	f granite which i	s 2.00cm x
	2.0cm x 9.00cm and has a n			
	D= 108g			
	(2.00cm x 2.0cm x 9.00	cm)		
52%	(12) 120 VA V	- 1 505 S	1287 FW 127	
14.	What amount of heat (in jou		d by raising the	temperature of
	152 grams of water by 9°C?		2	(94 \bulus >)
	Heat = $(152g)(9^{\circ}C)(4.184J)$	/g°C) = 6000 Joules	٦,	184 Joules = 1
15	Find the percent composition	on of iron and ovveen i	n ferric ovide	
1.5.	Fe_2O_3 Fe (2x55.85) + O (3:			
	10203 FC (2x33.03) + O (3.	(10.00) - 133.70 g/mo	Å	
	Fe = 111.70/159.70 x 100 =	69.94% O = 48.00/1	$159.70 \times 100 = 3$	0.06%

In = an atom that how lost/gained & and now is changed.

Isotope = atoms of same element w/ diff # of neutrons

(same # of protons) + diff mens #

	-	_ Som	<u></u>
Complete the table be	low.		
****			1 min

	Element	Atomic Number	Mass Number	Protons	Electrons Market P= c Market P - che	Neutrons N#-A#
16.	Al	13	27	13	13	14
17.	Be	4	9	4	4	5
18.	Bi	83	209	83	83	126
19.	Ca	20	40	20	20	20
20.	C	6	13	6	6	7
21.	F	9	21	9	9	12
22.	P-3	15	31	15	18	16
23.	Mg^{2+}	12	24	12	10	12

Orbitals

Fill-in the blanks on the following table.

ъ.	Energy Level	Sublevel	Number of Orbitals	Maximum Number of Electrons
24.	1	S	1	2
	2	s,p	4	8
26.	3	s,p,d	9	18
27.	4	s,p,d,f	16	32
		24. 1 25. 2 26. 3	24. 1 S 25. 2 s,p 26. 3 s,p,d	24. 1 S 1 25. 2 s,p 4 26. 3 s,p,d 9

ate>poly	29.	How	many

28. What elements are present in SF₆? ___sulfur_ and _fluorine __ Sulfur herafluoride

29. How many atoms are in the formula above? __7____

ide.	A) MW	rite t	he formulas for the	following
		30.	sodium chloride	NaCl
(anio	ባ)			

30. sodium chloride __NaCl_____ 37. sodium nitrate _NaNO₃_____

31. sodium sulfide Na₂S 38. sodium carbonate Na₂CO₃

32. sodium phosphate Na₃PO₄

Name	the	following	compounds.
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33. KClO₃ potassium chlorate

34. Cu(NO₃)₂ _copper (II) nitrate ___(Cupric)__

35. KOH potassium hydroxide

36. HBr (aq) hydrobromic acid

Cu(NOz)3 typo)
Copper(III) nitrite