0593679709	علمي) کيم 101	جامعة الملك سعود (مسار	/ عبدالعظيم الشريف
	I	Frist mid term	
	Мо	del number 1	
1- what is the mass	in (g) of piece of	metal (d = 7.14 g / cm	³) as shown in
L = 3 cm , d = 1.5 cm	, h = 0.2 cm		
a <u>) 6.</u> 42	b) 1.43	c) – 10.71	d) 21.42
ر تفاع = لمتوازى المستطيلاتV	الطول × العرض × الا		
= 0.2 × 3 × 1.5 =	0.9 cm ³		
$d=m/v \implies m=d \times v$	v = 7.14 × 0.9 = 6.42	2 g	
2- the melting point	t of bromine is -7º	C. what is the melting	g point in ^o F ?
a) 39.3	b) – 28.8	c) – 13.8	<u>d)</u> 19.4
$F = 9/5 \times {}^{0}C + 32$			
= 9/5 × -7 + 32 =	19.4 ºF		
3- How many signif	icant figures are in	n (4 3070) ?	
a) 1	<u>b)</u> 5	c) 4	d) 3
4- How many signif	icant figures shou	ld be reported as the s	sum of 8.5701 + 2.38
a) 6	b) 5	c <u>)</u> 4	d) 3
8.5701 + 2.38 = 10.9	501 <table-cell-rows> 10.95</table-cell-rows>		
5- walking consume 1881 kJ ? (1 Kcal	-	ite . how many hours a	are required to consume
a) 2.5	b) 1.25	c) 1.75	d) 1.5
$K Cal = 5 \times 4.18 = 2$	0.9 KJ		
20.9 KJ 1	min		
1881 KJ	$x \longrightarrow x=$	= 1881 / 20.9 = 90 min	/ 60 = 1.5 h

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6- Non SI unit from th	e following is .		
a) kilogram (kg)	b) second (S)	<u>c) inch</u> (in)	d) meter (m)
7- which of the followi	ng is a chemical change	e?	
a) mixing water and oil		<u>b)</u> oxidation of iron in air	
c) melting ice		d) dissolving suge	er in water
8- which is not an exte	nsive property of matte	er?	
a) volume	b) mass	<u>c)</u> density	d) Length
9- How many protons	(P) and electrons (e) a	are present in a 20 ⁴⁰	Ca +2 ion ?
<u>a)</u> 20 p and 18 e		b) 18 p and 20 e	2
c) 20 p and 22 e		d) 22 p and 20 e	
10- the formula of the	ionic compound formed	l by Calcium ions a	nd Phosphate ions , is
a) CaPO4	b) Ca (PO ₄) ₃	c) Ca ₃ PO ₄	d) $Ca_3(PO_4)_2$
Ca PO ₄			
2 3	$Ca_3(PO_4)_2$		
11- the correct name	of COCl ₃ is		
a) Cobalt Chloride		b) Cobalt tri chloride	
<u>c)</u> Cobalt (III) chloride d) Cobalt (III) trichloride			ichloride
12- the gold foil experi	iment (Rutherford expe	eriment) confirme	d that .
a) atoms are compose	ed of only electrons		
<u>b)</u> Protons are locate	d in the atom nucleus		
c) electrons are locate	ed in thee atoms nucleus		

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13- How many proto	ons (P),neutrons (n) and	d electrons (e) are th	ree in 1739Cl atom
<u>a)</u> 17P , 22n , 17	e	b) 17P , 17 n ,	22e
c) 17 P , 39 n , 17	d) 22P , 17n , 17e		
14- two isotopes of a	an element differt in their	`.	
a) numbers of e	lectrons	b) atomic numbers	
c) numbers of p	c) numbers of protons		
	Model nu	ımber 2	
1- which of the follo	owing is an extensive prop	perty of matter ?	
a)density	b) temperature	c) color	<u>d)</u> Length
2- how many L are 2	2050mL?		
<u>a)</u> 2.050L	b) 20.50 L	c) 205.0 L	d) 0.205L
v (L) = 2050 / 1000 =	2.050 L		
3- what is the sciene	entific from for 3500000	00 ?	
a) 3×10 ⁸	<u>b)</u> 3.5×10 ⁹	c) 3.5×10 ⁸	d)3.50×10 ⁹
		ation in scientific 3×10) ⁴ + 2.5×10 ⁵
4- express the answ	er to the following calcula		
4- express the answ a) 5×10 ⁵	b) 2.8×10 ⁵	c) 3.25×10 ⁵	d)5.5×10 ⁹
a) 5×10 ⁵	_	c) 3.25×10 ⁵	
a) 5×10^5 $3 \times 10^4 + 2.5 \times 10^5 = 0$	b) 2.8×10 ⁵	c) 3.25×10 ⁵	

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6- Convert 35 ^o C to	degrees Fahrenheit .		
a) 85F	b) 65F	c) 105F	<u>d) 95F</u>
$F = 9/5 \times {}^{0}C + 3$	2		
= 9/5 × 35 +	32 = 63 +32 = 95 F		
7- A metal has volu	me 1.48cm ³ and a ma	ss of 6.67g . Calculate th	e d metal in g/cm ³
a) 5.85	<u>b)</u> 4.50	c) 0.585	d) 0.005
d= m / v = 6.67 / 1.4	$8 = 4.51 \text{ g/cm}^3$		
8- How many proto	ns (P),neutrons (n)	and electrons (e) are t	here in ⁷⁸ 34Se .
a) 34P , 34n ,	44e	b) 44P , 34n , 78 e	
<u>c)</u> 34p , 44n ,	34e	d) 78p , 34 n , 44e	
9- Choose the parti	cal that carries a posi	tive charge .	
a) neutron	b) electron	<u>c)</u> Alpha	d) Beta
10-the number of r	neutrons in ⁶⁵ 30 Cl +2 i	S .	
a) 30	b <u>) 3</u> 5	c) 33	d) 37
n= 65 – 30 = 35			
11- which of the fol	lowing is not an emp	irical formula ?	
a) H ₂ O	b) CO ₂	c) NH ₃	<u>d)</u> C ₃ H ₆
12- two isotopes of	an element different	in their .	
a) number of protons		<u>b</u>) number of neutrons	
c) number of electrons		d) element symbol	
13- what is the forn ions ?	nula for the ionic con	npound formed by calci	um ions and phosphat
		<u>c)</u> Ca ₃ (PO ₄) ₂	d) Ca(PO ₄) ₃



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4- A change that o	occurs when one or n	ore substances wit	h different properties ?	_	
a) intensive	change	b) extensiv	ve change		
c) physical change <u>d</u>)			<u>d</u>) chemical change		
	with a mass of 521g i s density of the gold in		water level rises to avo	lum	
a)6.77	b) 10.4	<u>c)</u> 19.3	d) 0.0518		
6- the number 0.0	045×10 ⁻³ in scientific	notation is			
a) 45×10 ⁻⁷	<u>b)</u> 4.5×10 ⁻⁵	c) 0.45×10 ⁻⁴	d) 4.5×10 ⁻²		
can be described		e represent the resul	ts of student experimen	t an	
can be described a) Accurate , but n	ot precise t accurate recise	e represent the resul	ts of student experimen	t an	
can be described a) Accurate , but n <u>b)</u> precise , but not c) Accurate and pr d) Neither Accurat	ot precise t accurate recise te not precise		ts of student experimen		
can be described a) Accurate , but n <u>b)</u> precise , but not c) Accurate and pr d) Neither Accurat	ot precise t accurate recise te not precise ollowing numbers ca				
can be described a) Accurate , but n <u>b)</u> precise , but not c) Accurate and pr d) Neither Accurat 8- which of the fo	ot precise t accurate recise te not precise ollowing numbers car 5 S.F)				
can be described a) Accurate , but n <u>b)</u> precise , but not c) Accurate and pr d) Neither Accurat 8- which of the fo a) 0.0400 (ot precise t accurate recise te not precise ollowing numbers car 5 S.F) (2S.F)				
can be described a) Accurate , but n b) precise , but not c) Accurate and pr d) Neither Accurat 8- which of the fo a) 0.0400 (b)0.00302	ot precise t accurate recise te not precise 5 S.F) (2S.F) 4S.F)				
 can be described a) Accurate , but n b) precise , but not c) Accurate and pr d) Neither Accurate 8- which of the for a) 0.0400 (b)0.00302 c) 3.0650 (d) 1.04 (3) 	ot precise t accurate recise te not precise 5 S.F) (2S.F) 4S.F) S.F)	ntains the correct nu		res	

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10- At temp . of 41	⁹ F is the same as		
a) 16 ºC	b) 42 ºC	c) 310 °C	<u>d)</u> 5ºC
11- the correct nan	ne for CuSO4 . 5 H2O is		
a) Copper (II) sulfate hydrate		<u>b)</u> Copper (II) sulfate penta hydrate	
c)Coppper (I) s	sulfat pentahydrate	d) Copper sul	lfate pentahydrate
12- the number of J	protons , neutrons and	l electrons of the follo	owing elements
Sr		Ca+2	
a) 38P , 50n , 38e		20p, 18n , 21e	
<u>b)</u> 38P , 50n , 38e		20p, 20n , 18e	
c) 50P, 38n, 38e		18p, 20n , 20e	
d) 38P , 38n , 50e		20p, 18n , 20e	
13- which element compound	, when combined with	fluorine F would mo	ost likely from an ionic
<u>a)</u> Lithium (Li)	b) Phosphours (P) c)Carbon (C)	d) Chlorine (Cl)
14-the name of HCl	O ₂ is		
<u>a)</u> Chlorous acid	b) Hypo chlorous ac	cid c)Chloric a	cid d) Perchloric acid
15- what is the corr	rect name for Sn ₃ (PO ₄)	2	
<u>a) Tin</u> di phosphate		b) Tin (II) Phospha	te
c) Tin (III) phosphate		d) Tin (IV) phosphate	
	ق	معتمنياتم بالتوفير	
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