Mock for 1st periodical Exam 1438 H - 2016 G

Which of the following is a physical observation?

- a) Burns in oxygen
- b) Melts at 76 °C
- c) Forms a white precipitate
- d) Decomposes in air

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- b) Removing the salt from sea water
- c) Separating water into hydrogen and oxygen
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Ethanol boils at 173.1 °F. This temperature in K is

- a) 337.4.
- b) 351.5.
- c) 387.1.
- d) 401.4.

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$$K = ^{\circ}C + 273.15$$

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- Sweat
- Beef stew
- Apple juice
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- Chicken soup
- Hydrogen peroxide
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The density of gold is 19.31 g cm⁻³. What is the volume of a piece of gold weighing 294 g?

- a) $5.67 \times 10^3 \text{ cm}^3$
- b) 15.2 cm³
- c) 0.0657 cm³
- d) 5677 cm³

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- b) They are found at the right-hand side of the periodic table.
- c) They are good conductors of electricity.
- d) Some are colorful.

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The most stable isotope of silver is given by

$$^{107}_{47}$$
Ag

How many protons, neutrons, and electrons does it have?

- a) 107, 47, 47
- b) 60, 47, 60
- c) 47, 47, 60
- d) 47, 60, 47



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Which of the following determines the identity of an atom?

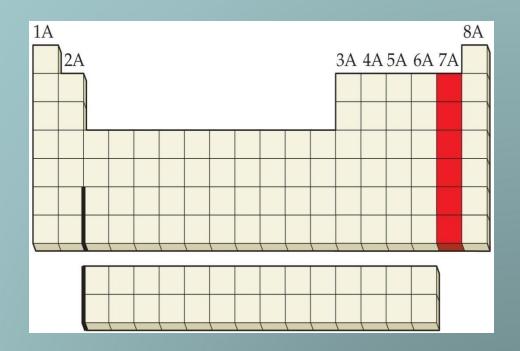
- A) Number of protons
- B) Number of electrons
- C) Number of neutrons
- D) Total number of protons and neutrons

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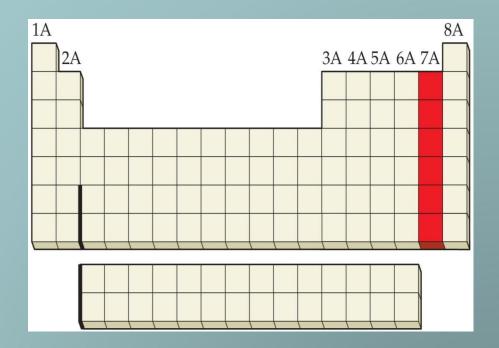
What group of elements does the shaded area in the following periodic table indicate?

- a) Alkali metals
- b) Alkaline earth metals
- c) Halogens
- d) Noble gases



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Which of the following elements is an alkali earth metal?

A) LiB) FeC) CaD) Ge

8	Main-g eleme						Trans	Main-group elements										
	1A	Group													82			8A
	1	number 1																18
1	1	2A											3A	4A	5A	6A	7A	2
1	Н	2											13	14	15	16	17	He
2	3	4											5	6	7	8	9	10
	Li	Be											В	C	N	0	F	Ne
3	11	12	3B	4B	5B	6B	7B		- 8B -		1B	2B	13	14	15	16	17	18
1,2,20	Na	Mg	3	4	5	6	7	8	9	10	11	12	Al	Si	P	S	Cl	Ar
Periods 4	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
Peri	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
5	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
3	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe
6	55	56	57	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86
0	Cs	Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn
7	87	88	89	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118
/	Fr	Ra	Ac	Rf	Db	Sg	Bh	Hs	Mt	Ds	Rg	Cn		Fl		Lv		

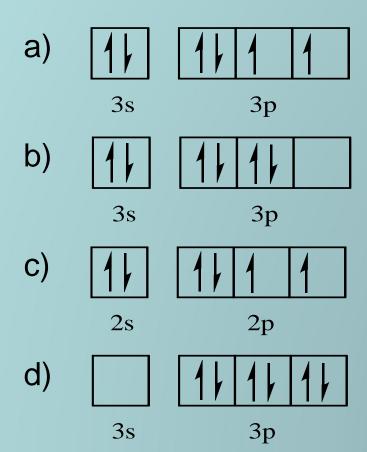
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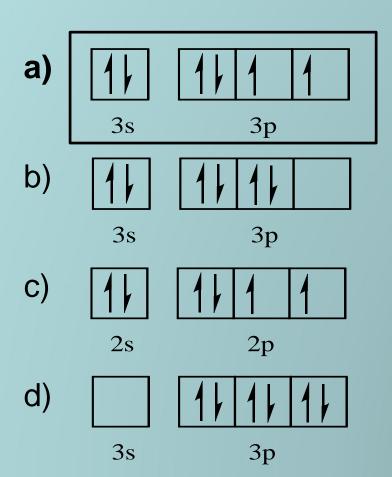
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spc	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
Periods 4	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
5	Rb	Sr	Y	Zr	Nb	Mo	Тс	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe
	55	56	57	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86
6	Cs	Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn
_	87	88	89	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118
7	Fr	Ra	Ac	Rf	Db	Sg	Bh	Hs	Mt	Ds	Rg	Cn		Fl		Lv		
													-					

Which of the following correctly illustrates the valence electron configuration of sulfur?



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Which of the following is the correct electron configuration for bromine?

- $1s^22s^22p^63s^23p^64s^24d^{10}4p^5$
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- $1s^22s^22p^63s^23p^64s^24p^6$
- $1s^22s^22p^63s^23p^54s^24p^5$

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	1	1 H	2A 2		Met	als [Me	etalloi	ds [No	nmeta	als		3A 13	4A 14	5A 15	6A 16	7A 17	2 He
	2	3 Li	4 Be											5 B	6 C	7 N	8 O	9 F	10 Ne
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-	Seriods	19 K	20 Ca	21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr
-	5	37 Rb	38 Sr	39 Y	40 Zr	41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe
	6	55 Cs	56 Ba	57 La	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg	81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn
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