



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 Which **period** of the periodic table is shown here?

- A 2
- B 7
- C 13
- D 18

5	6	7	8	9	10																																																										
B	C	N	O	F	Ne																																																										
13	14	15	16	17	18																																																										
B	C	N	O	F	Ne																																																										
11	12	13	14	15	16	17	18																																																								
Al	Si	P	S	Cl	Ar																																																										
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36																																														
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Cobalt	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	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Au	Hg	Tl	Pb	Bi	Po	At	Rn																																														
87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																		
Fr	Ra	Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mendelevium	No	Lr																																															
87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																		
Uu	Uub																																																														

2 How many **noble gases** are shown in this partial diagram of the periodic table?

- A 4
- B 3
- C 2
- D 1

5	6	7	8	9	10
B	C	N	O	F	Ne
10.81	12.011	14.007	15.999	18.998	20.179

3 Which of the elements shown here is the most **active nonmetal**?

- A B
- B N
- C F
- D Ne

5	6	7	8	9	10
B	C	N	O	F	Ne
10.81	12.011	14.007	15.999	18.998	20.179

4 In this partial diagram of the periodic table, how many **periods** are represented in the diagram?

- A 1
- B 2

1	2
H	He
1.008	4.003
3	4
Li	Be
6.941	9.012
11	12
Na	Mg
22.990	24.305
19	20
K	Ca
39.098	40.078
37	38
Rb	Sr
85.468	87.62
55	56

5



## PREVIEW

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7

- A different masses
- B different atomic numbers
- C different numbers of electrons
- D neutrons that are missing matter

39	40
K	Ca
39.098	40.078
87	88
Rb	Sr
85.468	87.62
132.91	137.33
137	138
Cs	Ba
132.91	137.33
223	226
Fr	Ra

- A 1
- B 2
- C 6
- D 12

6	2
C	4
12.011	

9 Using the diagram below, determine how many **neutrons** carbon (C) has.

- A 2
- B 4
- C 6
- D 12

6	2
C	4
12.011	

10 These three elements from Group 18 have the **same chemical activity** because they each have \_\_\_\_\_.

- A more than ten protons
- B more than one electron orbit
- C masses greater than 20
- D eight valence electrons in their outermost energy level

10	2
Ne	8
20.179	
18	2
Ar	8
39.948	
36	2
Kr	8
83.80	



## ANSWER KEY

Which **period** of the periodic table is shown here?

- A 2
- B 7
- C 13
- D 18

5	6	7	8	9	10		
B	C	N	O	F	Ne		
13	14	15	16	17	18		
B	C	N	O	F	Ne		
11	12	13	14	15	16	17	18
Cu	Zn	Ga	Ge	As	Se	Br	Kr
49	50	51	52	53	54	55	56
Ag	Cd	In	Sn	Sb	Te	I	Xe
80	81	82	83	84	85	86	87
Au	Hg	Tl	Pb	Bi	Po	At	Rn
111	112	113	114	115	116	117	118
Uu	Uu	Uu	Uu	Uu	Uu	Uu	Uu

(a)

How many **noble gases** are shown in this partial diagram of the periodic table?

- A 4
- B 3
- C 2
- D 1

5	6	7	8	9	10
B	C	N	O	F	Ne
10.81	12.011	14.007	15.999	18.998	20.179

(d)

Which of the elements shown here is the most **active nonmetal**?

- A B
- B N
- C F
- D Ne

1	2	3	4	5	6	7	8	9	10
H	He	Li	Be	B	C	N	O	F	Ne
1.00794	4.002602	6.941	9.01224	10.811	12.011	14.007	15.999	18.998	20.179

(c)

In this partial diagram of the periodic table, how many **periods** are represented in the diagram?

- A 1
- B 2
- C 6

1	H	1.00794
3	Li	6.941
11	Na	22.990
19	K	39.098
37	Rb	85.468
55	Cs	132.91

(d)



## PREVIEW

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- B different atomic numbers
- C different numbers of electrons
- D neutrons that are missing matter

Rb	85.468
Cs	132.91
Fr	223

- A 1
- B 2
- C 6
- D 12

6	4
C	
12.011	

Using the diagram below, determine how many **neutrons** carbon (C) has.

- A 2
- B 4
- C 6
- D 12

6	2
C	4
12.011	

(c)

These three elements from Group 18 have the **same chemical activity** because they each have \_\_\_\_\_.

- A more than ten protons
- B more than one electron orbit
- C masses greater than 20
- D eight valence electrons in their outermost energy level

10	Ne	20.179
18	Ar	39.948
36	Kr	83.80

(d)