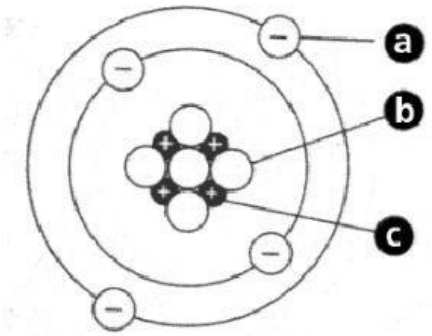
1.



Which is an electron?

A B

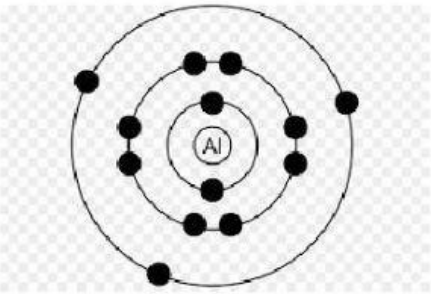
C

2. How many electrons go in the first shell (ring) ?

6 8

4 2

3.



This is a Bohr Diagram of Aluminum. How many valence electrons does Aluminum have?

3 4

5

LIVEWORKSHEETS

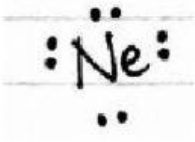
4. What is a valence electron?

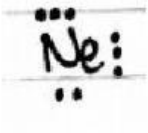
an electron that is found in the outermost shell of an atom.

an electron found in the innermost shell of an atom.

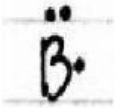
an electron found in the middle shell.

5. Which of these is incorrect?

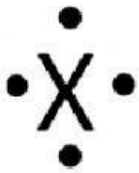




6. Which of these is correct?



7.



This could be the dot diagram of

Ne

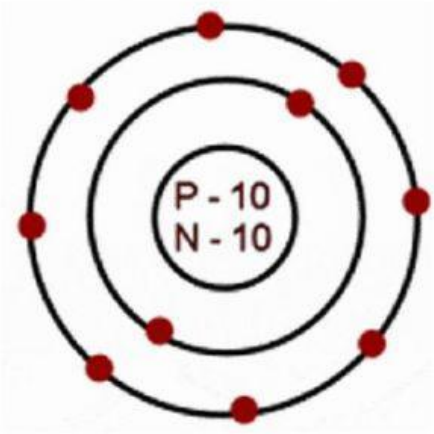
Si

Al

Be

LIVEWORKSHEETS

8.



Which element is this?

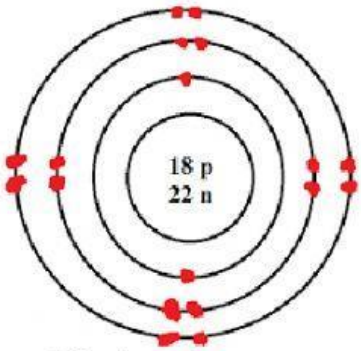
Nickel

Neon

Sodium

Nitrogen

9.



Name this element.

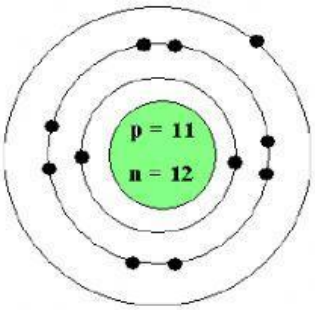
Argon

Chlorine

Aluminum

Boron

10.



Name this element.

Neon

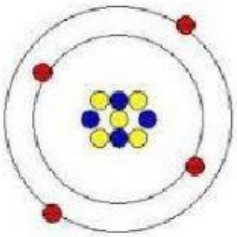
Magnesium

Sodium

Manganese

LIVEWORKSHEETS

11.



What is this element?

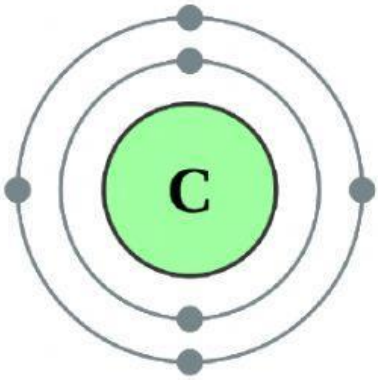
Beryllium (atomic #4)

Boron (atomic #5)

Carbon (atomic #6)

Nitrogen (atomic #7)

12.



How many valence electrons?

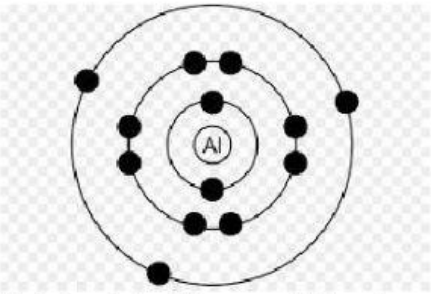
2

3

4

5

13.



This is a Bohr Diagram of Aluminum. How many valence electrons does Aluminum have?

3

4

5

LIVEWORKSHEETS

14. what are the valence electrons for phosphorus in group 15?

15 5

3 2

15. calcium is in group 2 of the periodic table. what are the valence electrons?

12 2

18 0

16. what are the valence electrons of an element in group 17?

7 17

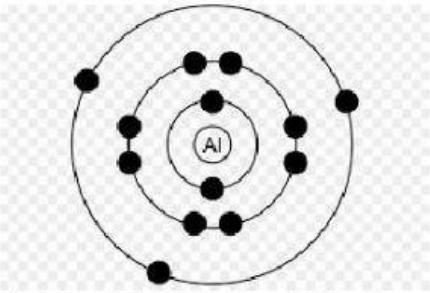
1 5

17. Which subatomic particles are much smaller than the others and have a negative charge?

protons neutrons

electrons

18.



This is a Bohr Diagram of Aluminum. How many valence electrons does Aluminum have?

3 4

5

LIVEWORKSHEETS

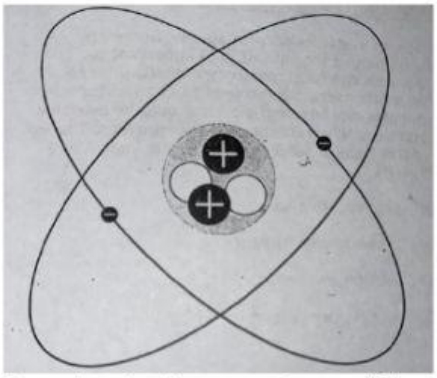
19.

This is a correct dot diagram for neon (Ne)

true

false

20.



A student is shown a picture of the atom to the side. What element, based on the subatomic particles in the atom, is shown?

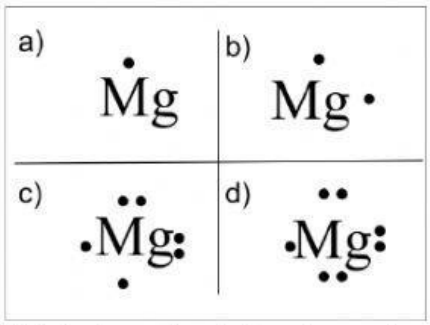
Beryllium

Lithium

Helium

Oxygen

21.



Which shows the right valence electrons?

A

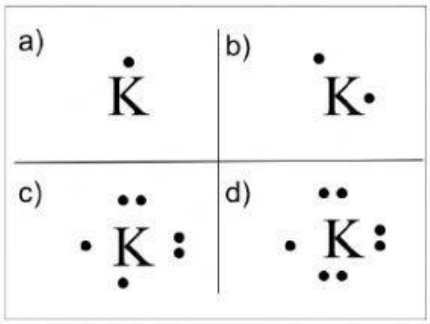
B

C

D

LIVEWORKSHEETS

22.

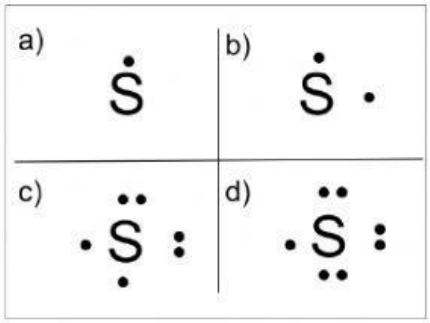


Which shows the right valence electrons?

A B

C D

23.

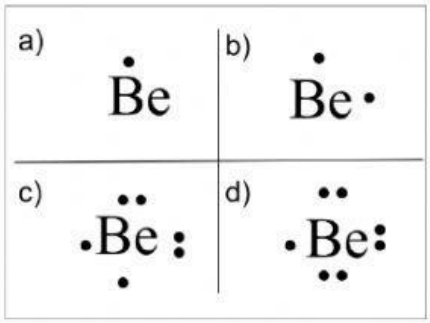


Which shows the right valence electrons?

A B

C D

24.



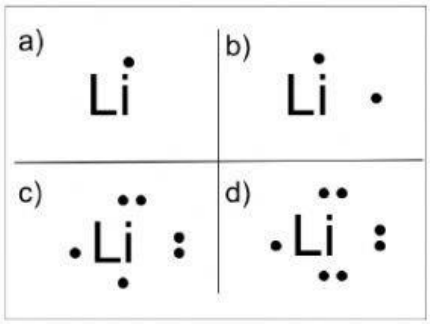
Which shows the right valence electrons?

A B

C D

LIVEWORKSHEETS

25.

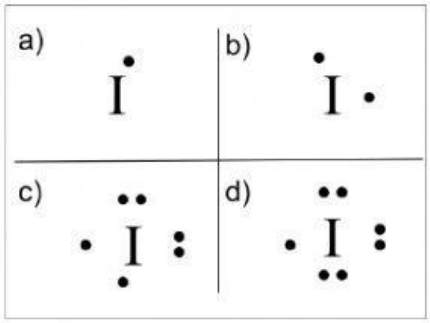


Which shows the right valence electrons?

A B

C D

26.

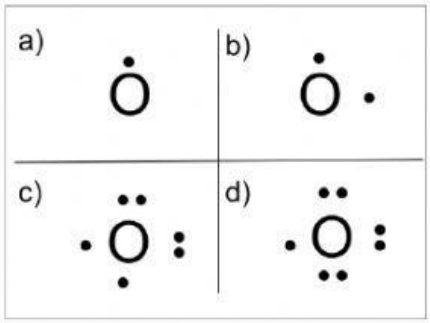


Which shows the right valence electrons?

A B

C D

27.



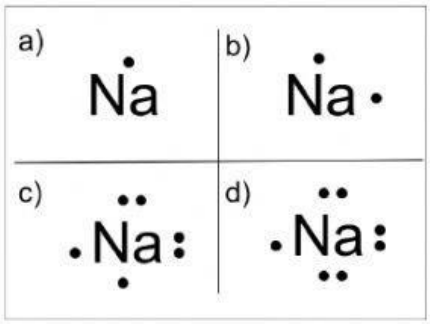
Which shows the right valence electrons?

A B

C D

LIVEWORKSHEETS

28.

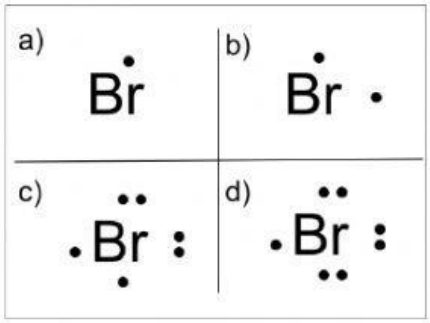


Which shows the right valence electrons?

A B

C D

29.

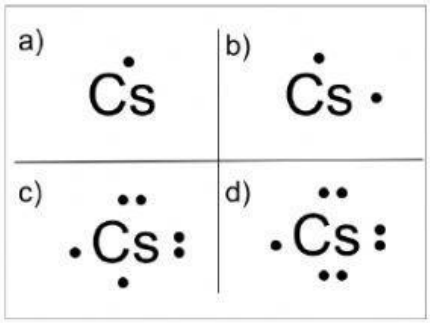


Which shows the right valence electrons?

A B

C D

30.



Which shows the right valence electrons?

A B

C D

LIVEWORKSHEETS