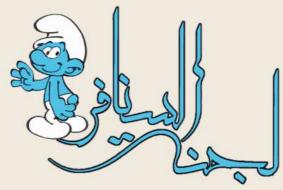
خدمتكم طريق خضناه لرضي الله

2021



کیمیاء عامة





سنافر البوليتكنك

## بسم الله الرحمن الرحيم

نقدم لكم نحن أسرة فريق (لجنة السنافر)

مجموعة أسئلة اختبارات إلكترونية تم تجميعها خلال الفصول الماضية سائلين المولى أن يوفقنا وإياكم لكل خير

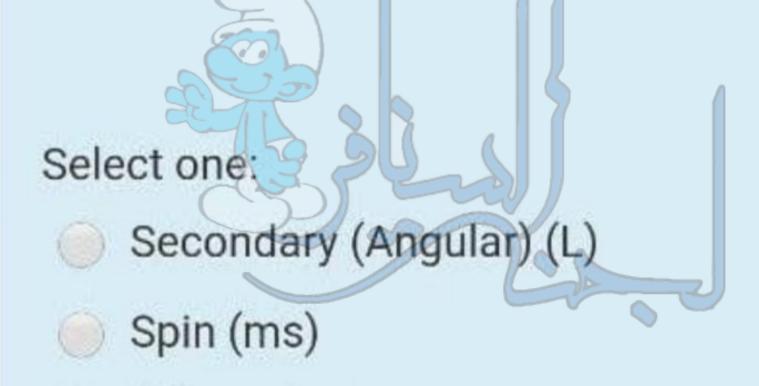
### تنویه

يوجد بعض الأسئلة عليها إجابات قد تحتمل الصواب وقد تحتمل الخطأ فالمنطأ في فإن أصبنا فما هو إلا توفيق من الله وإن أخطأنا فمن أنفسنا

#خدمتكم طريق خضناه لرضى الله #الإتجاه الاسلامي #بسواعدنا نبنيها #لجنة السنافر

#هي لله

All of the orbitals in a given shell have the same value for their \_\_\_\_\_ quantum number.

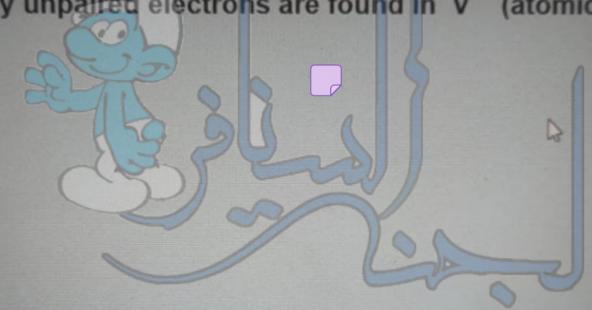


Magnetic (mL)

Principal (n)

## How many unpaired electrons are found in V2+ (atomic number = 23)

- 00
- 01
- 0.
- 03
- 0 4
- 0 2



#### In the reaction

If the theoretical yield of CCl<sub>2</sub>F<sub>2</sub> was 1.68 moles, and the percent yield in the reaction was 74.3%, how many grams of CCl<sub>2</sub>F<sub>2</sub> (121 ?g/mol) were actually obtained

اختراحد الخيارات

#### In the reaction

If the theoretical yield of CCl<sub>2</sub>F<sub>2</sub> was 1.68 moles, and the percent yield in the reaction was 74.3%, how many grams of CCl<sub>2</sub>F<sub>2</sub> were ?actually obtained

الحترأحد الخيارات

How many different orientations in space do s-orbitals have? Select one:

A compound was found to contain 33.0% Si and 67.0% F, by mass. If the molar mass of

compound is 170.0 g/mol, find its molecular formula.

(Si = 28 , F = 19 g/mol)



- O SiF,
- O SizF6
- O SigFa
- O SIJF,



## Which of the following is ?not an empirical formula



What is the mass percentage of Flourine (F) in a compound with the empirical formula SF.?

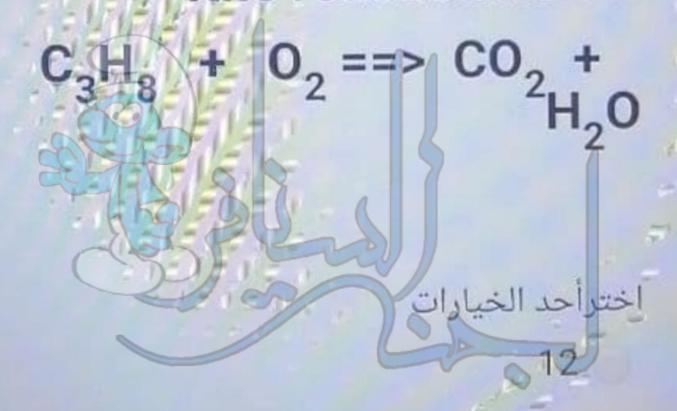
S =32, F =19 g/mol

78.08%

O 25.23%



The correct coefficient that balanced The O<sub>2</sub> in the chemical equation for the reaction below



You are given the balanced :chemical equation

$$C_4H_4 + 50_2 ==> 4C0_2 + .2H_20$$

If 0.36 moles of C<sub>4</sub>H<sub>4</sub> are allowed to react with 2.82 moles of O<sub>2</sub>, what is the mass of water ?produced (in grams)

molar mass of water =18 g/mol

اخترأحد الخيارات

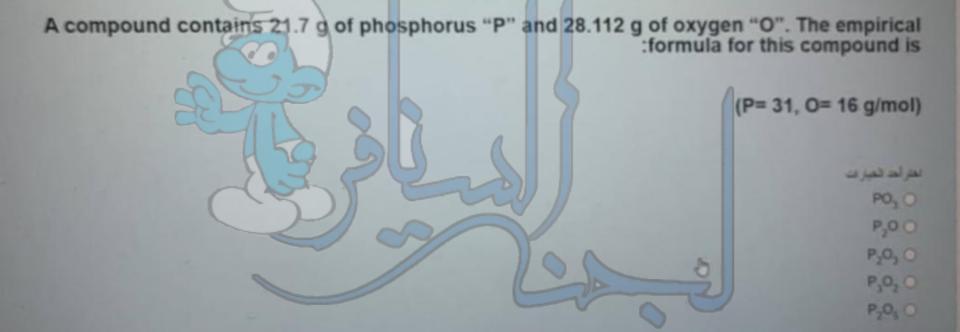
13.20

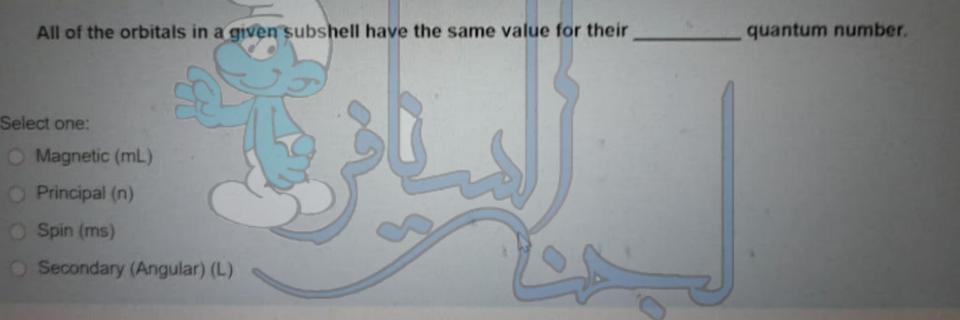
19.64

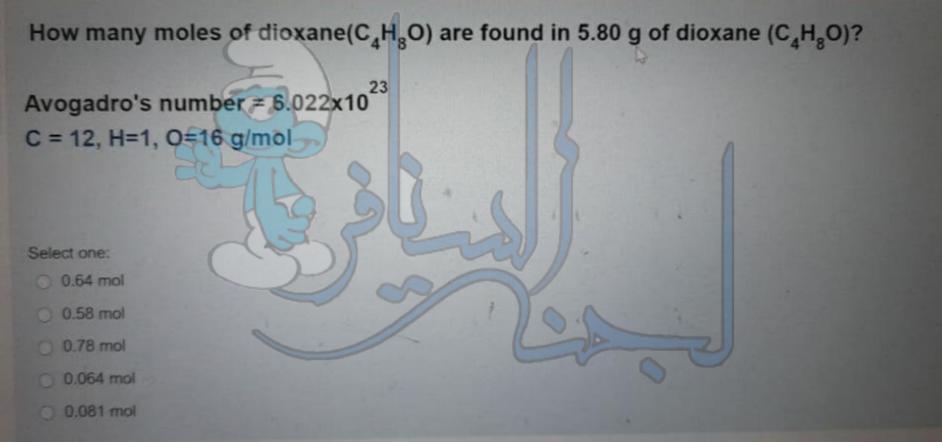
12.96

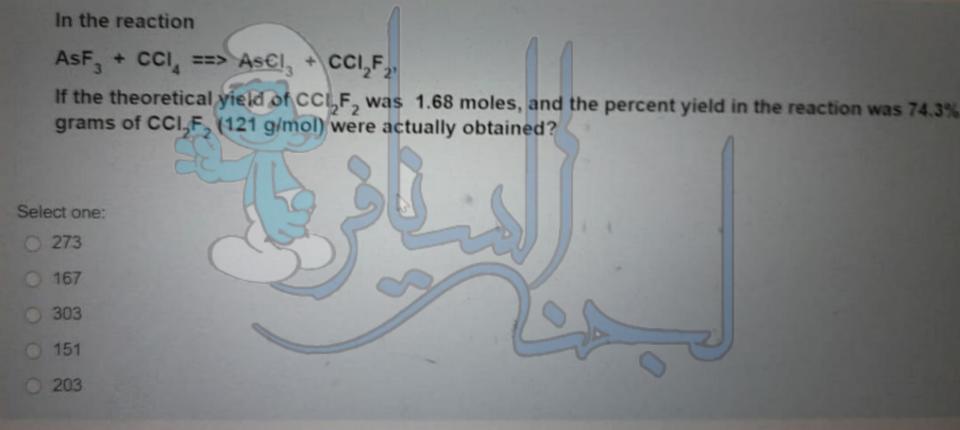
65.50

11.02



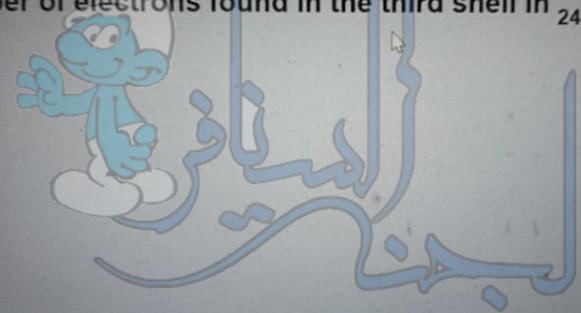






The number of electrons found in the third shell in 24Cr is:

- 0 13
- 0 10
- 0 16
- 0 18
- 0 8



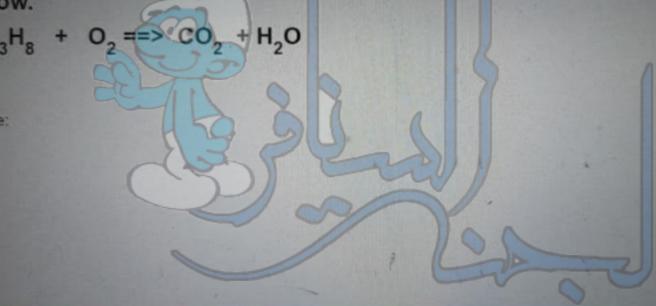
#### In the reaction

If the theoretical yield of CCl<sub>2</sub>F<sub>2</sub> was 1.68 moles, and the percent yield in the reaction was 82.2 %, how many grams of CCl<sub>2</sub>F<sub>2</sub> (121 g/mol) were actually obtained?

The correct coefficient that balanced The O, in the chemical equation for the react below.

$$C_3H_8 + O_2 = CO_2 + H_2O$$

- 0 19
- 0 12
- 0 14
- 0 5

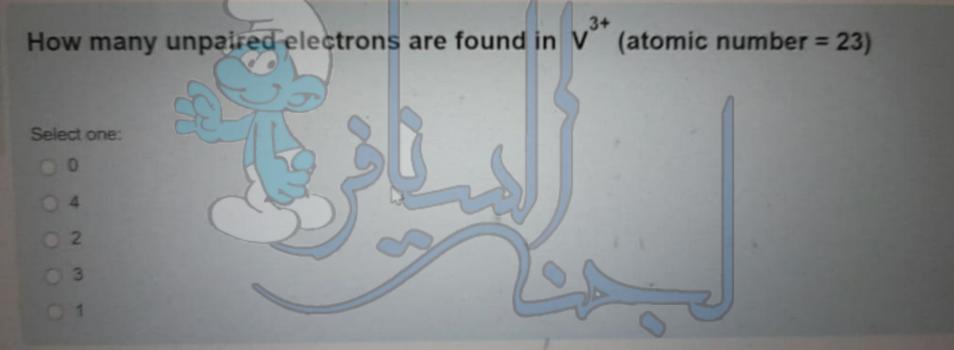


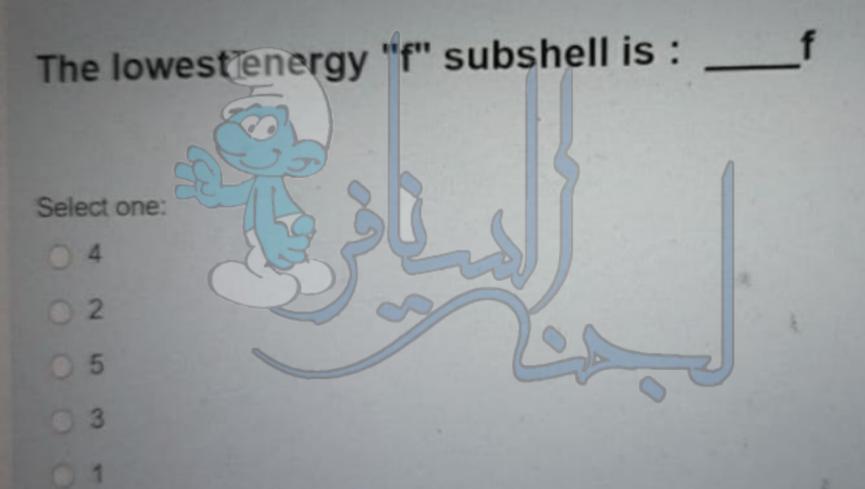
A compound was found to contain 33.0% Si and 67.0% F, by mass. If the molar mass of the compound is 170.0 g/mol, find its molecular formula.

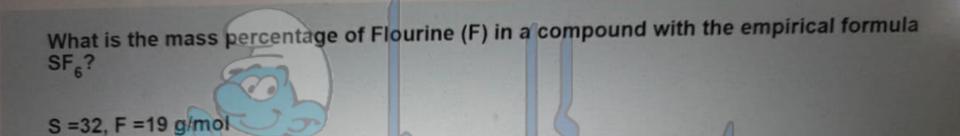
(Si = 28 , F = 19 g/mol)

- O Si<sub>2</sub>F<sub>6</sub>
- O SiF<sub>2</sub>
- O SiF<sub>3</sub>
- O Si<sub>2</sub>F<sub>4</sub>
- O SigFg









- 36.00%
- 29.67%
- 21.95%
- 78.08%
- O 25.23%

# Arrange the following atoms according to decrease in their ionization energies

Al (At.no. = 13)

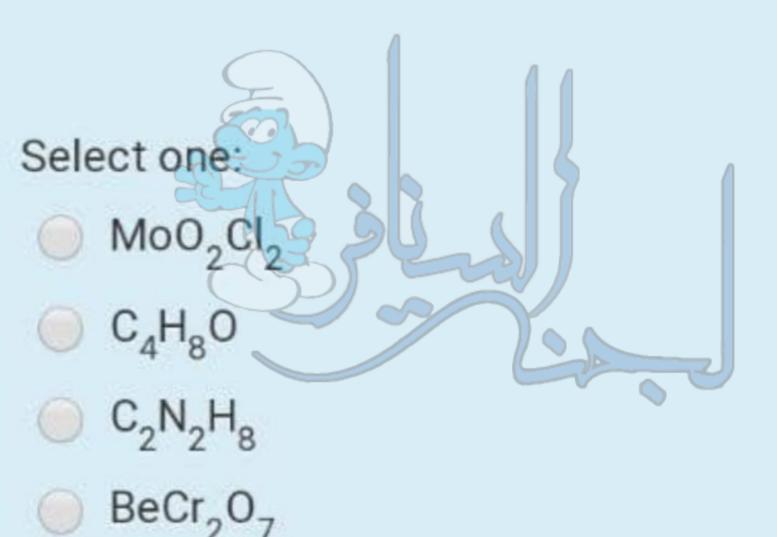
Ga (At.no. = 31)

Mg (At.no. = 12)

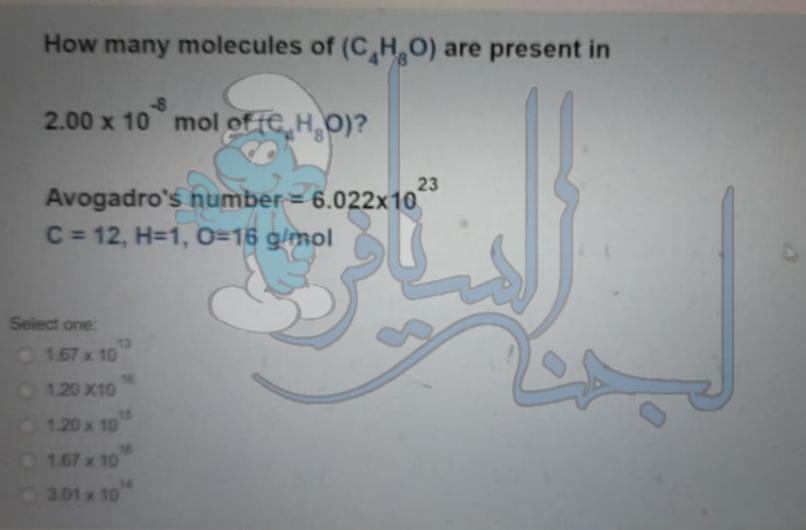
Ar (At.no. = 18)

- Ar >Mg> Al > Ga
- Mg > Al> Ga > Ar
- Ga> Mg > Al > Ar
- Ar >Al> Mg > Ga
- Al> Mg > Ar> Ga

## Which of the following is not an empirical formula?

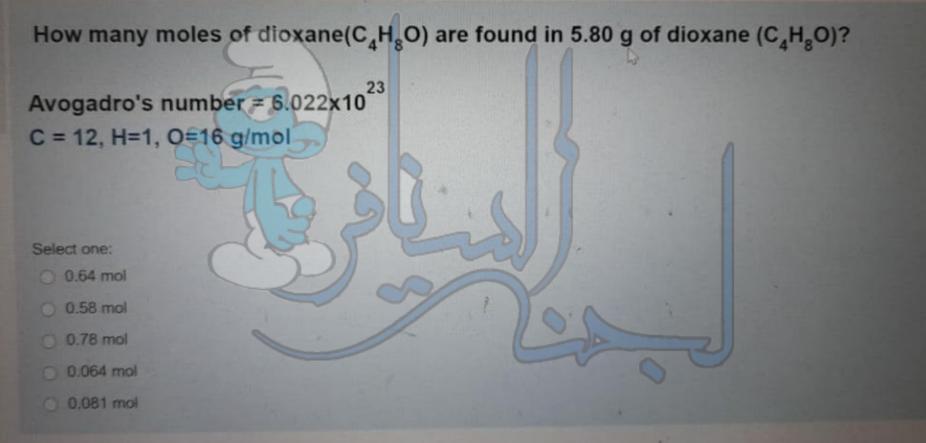


Sb<sub>2</sub>S<sub>3</sub>



#### Down the group (from top to bottom) the electron affinity \_\_\_\_\_

- remains constant because effective nuclear charge is constant
- increases due to increase of number of shells
- o decreases then increases
- decreases because number of shells increase
- increase because effective nuclear charge increases



How many different orientations in space do s-orbitals have?



- 0 5
- 0 2
- 07
- 01
- 03

