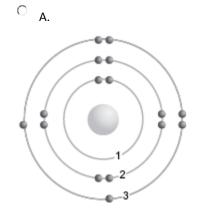
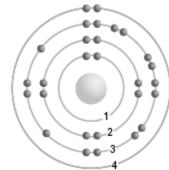
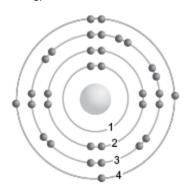
Select the Bohr model that represents the electron configuration of nickel.



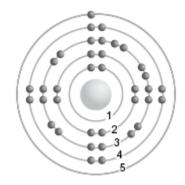




° c.



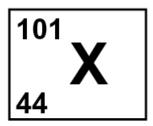
O _{D.}



Based on the relative positions of atoms in the periodic table, which pair of elements <u>most likely</u> has the largest difference in atomic radius?

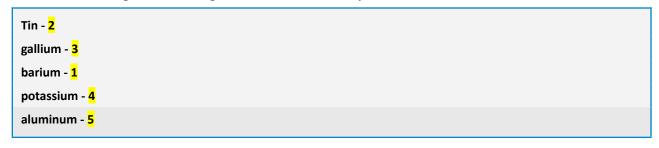
- A. N, O
 B. Rf, Sg
 C. Pb, Pc
- O D. Mg, Ra

The model shows values corresponding to a mystery element, element "X", on the periodic table. Choose the correct terms to complete the sentences.



The atomic number is the total amount of protons in the nucleus of an atom, which is represented by the number in the model. The mass number is the total amount of protons and neutrons in the nucleus of an atom, which is represented by the number 101 in the model.

Order the following atoms from highest to lowest number of protons.



Place the elements in order from the element with the most electrons to the element with the least number of electrons.

Ar - <mark>3</mark>		
Ar - <mark>3</mark> Se - <mark>1</mark> Ca - <mark>2</mark> H - <mark>4</mark>		
Ca - <mark>2</mark>		
H - <mark>4</mark>		

Choose the correct terms to complete the sentences.

Oxygen-16, oxygen-17, and oxygen-18 are the three isotopes of the element oxygen. An atom of each of these isotopes will have the same number of protons, but a different number of neutrons.

Estimate the atomic mass of silicon based on the following information	Estimate the	atomic mass of	f silicon ba	sed on the	following	information
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	• • • • • • • • • • • • • • • • • • •		
The natural	abundance of Si-28 is 92.23%. For Si-29, it is 4.67%, and for	· Si-3	0, it is 3.10%.
С	A. 25.8 amu	0	C. 29.0 amu
С	B. 28.1 amu	0	D. 87.0 amu
What is the	wavelength of a light wave with a frequency of 2.5×10^{14}	Hz?	
С	A. 7.5×10^{-6} m	0	C. 1.2×10^{-5} m
С	B. 1.2 × 10 ⁻⁶ m	0	D. 8.3×10^5 m
\ A/b a4 aaa	and a continue about a superture was discard for each alone and		
wnat cause	es the unique atomic spectra produced for each element?		
С	A. Atoms emit light as electrons jump up to higher energy	/ lev	els.
С	B. Atoms emit light as excited electrons drop down to low	ver e	nergy levels.
С	C. Atoms emit light as protons jump up to higher energy l	evel	S.
С	D. Atoms emit light as excited protons drop down to lowe	er en	ergy levels.
What is the	maximum number of electrons in the fourth energy level	?	
С	A. 32 electrons	0	C. 6 electrons
С	B. 18 electrons	0	D. 2 electrons