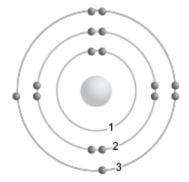
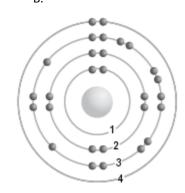
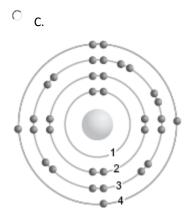
Select the Bohr model that represents the electron configuration of nickel.

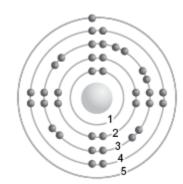


 \circ В.





0 D.



Based on the relative positions of atoms in the periodic table, which pair of elements most likely has the largest				
difference in atomic radius?				
A. N, O				
B. Rf, Sg				
C. Pb, Po				
C 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.				
44				
The is the total amount of protons in the nucleus of an atom, which is represented by the				
number in the model. The is the total amount of protons and				
neutrons in the nucleus of an atom, which is represented by the number in the model.				
Order the following atoms from highest to lowest number of protons.				
Tin				
gallium				
barium				
potassium				
aluminum				
Place the elements in order from the element with the most electrons to the element with the least number of				
Place the elements in order from the element with the most electrons to the element with the least number of electrons.				
electrons. Ar				
electrons.				

Choose the correct terms to complete the sentences.				
	xygen-17, and oxygen-18 are the three isotopes of the have the same number of , but a		nt oxygen. An atom of each of these nt number of	
Estimate the	atomic mass of silicon based on the following inform	nation:		
The natural abundance of Si-28 is 92.23%. For Si-29, it is 4.67%, and for Si-30, it is 3.10%.				
0	A. 25.8 amu	0	C. 29.0 amu	
0	B. 28.1 amu	0	D. 87.0 amu	
What is the wavelength of a light wave with a frequency of 2.5 \times 10 ¹⁴ Hz?				
0	A. 7.5 × 10 ⁻⁶ m	0	D. 8.3×10^5 m	
0	B. 1.2×10^{-6} m			
0	$C. 1.2 \times 10^{-5} \text{ m}$			
What causes the unique atomic spectra produced for each element?				
0	A. Atoms emit light as electrons jump up to higher energy levels.			
0	B. Atoms emit light as excited electrons drop down to lower energy levels.			
0	C. Atoms emit light as protons jump up to higher energy levels.			
0	D. Atoms emit light as excited protons drop down to lower energy levels.			

C. 6 electrons

D. 2 electrons

What is the maximum number of electrons in the fourth energy level?

C A. 32 electrons

C B. 18 electrons