Name:	They	

Atoms and Atomic Structure

1. The atomic number is the number of	in an atom.				
2. ProtonS are positively charged.	WORD BANK				
3. <u>Electrons</u> are negatively charged.	protons neutrons				
4. <u>Neutrons</u> have no charge.	electrons atomic number mass number				
5. <u>electrons</u> have virtually no mass.					
6. protens and neutrons have approximately equal masses.					
7. The mass number is the sum of the number of proteins and neutrons					
Therefore, to determine the number of neutrons in an atom, you should take the					
and subtract the Chemic # atomic number mass number					
8. In a neutral atom, the number of protons equals the number of <u>electrons</u> .					
9. To determine what element you have, you need to determine the number of					
10. In the symbol ¹⁰¹ / ₄₄ Ru, 101 represents the <u>mass</u> , and 44 represents					
the cotonic #.					
11. In the symbol Mo-96, 96 represents the					
12. Isotopes of the same element differ in the number of Neutrons.					
Fill in the blanks in questions 13-15 with the appropriate number.					
13. Protons have a mass of a.m.u.					
14. Neutrons have a mass of a.m.u.					
15. Electrons have a mass of					

16. In what way(s) do U-232, U-235, and U-238 differ from each other? They all differ in the #	of	neutrons
In what ways are they similar to each other?	af	Protons
In what ways are they similar to each other? they have the Same #		•
17. How many		
Protons in ⁴⁰ ₁₉ K		
Electrons in Sr-91 38		
Neutrons in ¹⁸ O 100		
Protons in C-14		
Electrons in ²⁰ ₁₀ Ne		
Neutrons in Fe-58 32 (58-26)		
Refer to the Periodic Table to find answers to the following questions:		
17		

How many . . .

- 19. Electrons in a Bromine atom <u>35</u>
- 20. Neutrons in an average Mg atom 12
- 21. Protons in a Copper atom ______
- 22. Neutrons in an Na-24 atom _______
- 23. Neutrons in a ⁴⁰₁₉K atom ________