Practicing Protons, Neutrons, and Electrons

1. Define atomic number. _____

_____

2. Define mass number. _____

_____

3. What is the relationship between protons and electrons in an atom?

_____

_____

4. Using the symbol box to the right, answer the following questions:

a. What is the atomic number? ☐

b. What is the mass number? ☐

c. How many electrons? ☐

d. How many neutrons? ☐

e. How many protons? ☐

17
Cl
Clorine
35

5. Using the periodic table, fill in the blanks.

Element Symbol	Mass Number	Atomic Number	Protons	Neutrons	Electrons
	24	11			
Y	89				39
		29		35	
Tc	98		43		
Pb	207				

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Answers

1. Define atomic number. The number of protons in an atom.

2. Define mass number. The sum of the numbers of protons and neutrons in an atom.

3. What is the relationship between protons and electrons in an atom?
There are same number of protons as electrons in an atom.

4. Using the symbol box to the right, answer the following questions:

a. What is the atomic number? 17

b. What is the mass number? 35

c. How many electrons? 17

d. How many neutrons? 18

e. How many protons? 17

17

Cl

Clorine

35

5. Using the periodic table, fill in the blanks.

Element Symbol	Mass Number	Atomic Number	Protons	Neutrons	Electrons
Na	24	11	11	13	11
Y	89	39	39	50	39
Cu	64	29	29	35	29
Tc	98	43	43	55	43
Pb	207	82	82	125	82