## igl[ Atomic Structure Worksheet igr]

1	How many protons and neutrons are present is an atom of calcium (Mas number $= 40$ )?					
	Protons =	Neutrons =				
2	How many protons and number = 84)?	neutrons are present is	an atom of krypton (Mass			
	Protons =	Neutrons =				
3	What is the name, symbol, and charge of an ion that contains 12 prand 10 electrons?					
	Name =	Symbol =	Charge =			
4	What is the name, symbol, and charge of an ion that contains 15 proto and 18 electrons?					
	Name =	Symbol =	Charge =			
5	A neutral atom has 85 protons and 125 neutrons. Show calculations wherever necessary.					
	What is its atomic number?  What is its mass number?  How many electrons does the atom has?  What is the name of the atom?					
6	Assuming all the atoms have neutral charge, complete the following table					

using your knowledge on atomic structure.

	Protons	Electrons	Neutrons	Mass number
Atom 1		8	8	
Atom 2			14	28
Atom 3	22			48
Atom 4		47		107
Atom 5		83	126	
Atom 6	87			223

## Atomic Structure Worksheet

## Answers

How many protons and neutrons are present is an atom of calcium (Mass number = 40)?

$$Protons = \underline{20}$$

2 How many protons and neutrons are present is an atom of krypton (Mass number = 84)?

Protons = 
$$36$$

What is the name, symbol, and charge of an ion that contains 12 protons and 10 electrons?

Name = 
$$Magnesium$$
 Symbol =  $Mg$  Charge =  $+2$ 

$$Symbol = Mg$$

Charge = 
$$+2$$

4 What is the name, symbol, and charge of an ion that contains 15 protons and 18 electrons?

Name = 
$$\frac{Phosphorous}{}$$
 Symbol =  $\frac{P}{}$  Charge =  $\frac{-3}{}$ 

$$Symbol = P$$

Charge = 
$$-3$$

A neutral atom has 85 protons and 125 neutrons. Show calculations wherever necessary.

- What is its atomic number? 85
- [b] What is its mass number? 85 + 125 = 210
- How many electrons does the atom has? 85
- [d] What is the name of the atom? Astatine

6 Assuming all the atoms have neutral charge, complete the following table using your knowledge on atomic structure.

	Protons	Electrons	Neutrons	Mass number
Atom 1	8	8	8	16
Atom 2	14	14	14	28
Atom 3	22	22	26	48
Atom 4	47	47	60	107
Atom 5	83	83	126	209
Atom 6	87	87	136	223