

# [ Atomic Structure Worksheet ]

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

Protons = \_\_\_\_\_

Neutrons = \_\_\_\_\_

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

Protons = \_\_\_\_\_

Neutrons = \_\_\_\_\_

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

Name = \_\_\_\_\_

Symbol = \_\_\_\_\_

Charge = \_\_\_\_\_

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

Name = \_\_\_\_\_

Symbol = \_\_\_\_\_

Charge = \_\_\_\_\_

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

a What is its atomic number? \_\_\_\_\_

b What is its mass number? \_\_\_\_\_

c How many electrons does the atom have? \_\_\_\_\_

d 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

# Atom Structure Workbook Answers

**M Woodhall**



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