

# Basic Chemistry-1

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1. Fill in the blanks:

1. Elements combine in \_\_\_\_\_ proportion to form a compound. (fixed/variable)
2. The properties of a compound are \_\_\_\_\_ those of its constituent elements. (different from/similar to)
3. When kindled, water \_\_\_\_\_ burn in oxygen, but hydrogen \_\_\_\_\_. (does/does not)
4. The atoms of an element are all \_\_\_\_\_. (alike/different)
5. The atoms of an element \_\_\_\_\_ all the properties of the element. (show/do not show)
6. Atoms combine in \_\_\_\_\_ numbers as they are \_\_\_\_\_. (whole/fractional/divisible/indivisible)
7. The numbers of atoms of different kinds present in a molecule of \_\_\_\_\_ is indicated by its formula. (an element/a compound)
8. Complete the following table.

Formula of the compound	Elements present in the compound
SiO <sub>2</sub>	Silicon and oxygen
CaO	..... and .....
PbO	..... and .....
PbS	..... and .....
CuS	..... and .....
FeS	..... and .....

2.

*Match the columns.*

1. Match the elements with their properties.

<b>Element</b>	<b>Property</b>
(a) Iodine	(i) A lustrous nonmetal that allows electric current to pass through it
(b) Mercury	(ii) A nonmetal that is in the liquid state under ordinary conditions
(c) Graphite	(iii) An element that can be beaten into sheets and drawn into wires
(d) Bromine	(iv) A metal that is in the liquid state under ordinary conditions
(e) Iron	(v) A lustrous nonmetal that does not allow electric current to pass through it

2. Match the compounds with their formulae.

<b>Compound</b>	<b>Formula</b>
(i) Copper oxide	(a) MgO
(ii) Zinc sulphide	(b) FeO
(iii) Magnesium oxide	(c) CuO
(iv) Ferrous oxide	(d) ZnS
(v) Calcium sulphide	(e) H <sub>2</sub> O
(vi) Sodium chloride	(f) CO <sub>2</sub>
(vii) Carbon dioxide	(g) CaS
(viii) Water	(h) NaCl