

## Chem11 Moles : Quiz-70

- 1) 7.2 moles = \_\_\_\_\_ atoms.
- 2)  $4.1 \times 10^{-14}$  moles = \_\_\_\_\_ atoms.
- 3) 1.00 mole of iron atoms has a mass of \_\_\_\_\_ g.
- 4) 1.00 moles of fluorine molecules has a mass of \_\_\_\_\_ g.
- 5) 8.40 moles of iron atoms has a mass of \_\_\_\_\_ g.
- 6) 1 iron atom has a mass of \_\_\_\_\_ g.
- 7) The number of moles of potassium atoms in 3.0 moles of  $K_2S$  is \_\_\_\_\_ . The number of moles of sulfur atoms is \_\_\_\_\_ .
- 8) The molecular mass of  $K_2S$  is \_\_\_\_\_ g.
- 9)  $2.3 \times 10^{28}$  atoms = \_\_\_\_\_ moles.
- 10)  $9.1 \times 10^7$  atoms = \_\_\_\_\_ moles.
- 11) 28.0 g of nitrogen atoms contains \_\_\_\_\_ moles of atoms.
- 12)  $1.7 \times 10^{-3}$  grams of nitrogen atoms contains \_\_\_\_\_ moles.
- 13) Find the mass of  $4.0 \times 10^{18}$  atoms of magnesium. \_\_\_\_\_ g.

Answers : 1)  $4.3 \times 10^{24}$ , 2)  $2.5 \times 10^{10}$ , 3) 55.8, 4) 38.0, 5) 469, 6)  $9.3 \times 10^{-23}$ , 7) 6.0, 3.0, 8) 110.3, 9)  $3.8 \times 10^4$ , 10)  $1.5 \times 10^{-16}$ , 11) 2.00, 12)  $1.2 \times 10^{-4}$ , 13)  $1.6 \times 10^{-4}$ .