

Chem11 Moles : Quiz-50

- 1) 1.00 mole = _____
- 2) 1.00 mole of titanium atoms has a mass of _____ grams.
- 3) 1.00 mole of fluorine molecules has a mass of _____ grams
- 4) 8.7×10^{-3} moles of carbon atoms = _____ atoms.
- 5) 1.2×10^{20} atoms of hydrogen = _____ moles of atoms.
- 6) 3.2×10^{-2} g of boron atoms = _____ moles of atoms.
- 7) 1.8×10^{-18} moles of iron atoms have a mass of _____ g.
- 8) The mass of one copper atom = _____ g.
- 9) Find the mass of 2.3×10^{28} atoms of manganese. _____ g
- 10) Find the molar mass of iron (III) carbonate. _____ g.
- 11) Find the percentage of iron by mass in iron (III) carbonate. _____
- 12) How many moles of atoms are in 4.0 moles of iron (III) carbonate. _____ moles.
- 13)a) Find the number of moles of iron (III) carbonate in 10. grams of the compound. _____ moles
- b) Find the number of grams of carbon in 10. g of the compound. _____ g

Answers :1) 6.02×10^{23} , 2) 47.9, 3) 38.0, 4) 5.2×10^{21} , 5) 2.0×10^{-4} , 6) 3.0×10^{-3} , 7) 1.0×10^{-16} , 8) 1.06×10^{-22} , 9) 2.1×10^6 , 10) 291.7, 11) 38.3, 12) 56, 13)a) 3.4×10^{-2} , b) 1.2.