

Calculate how many moles are in the following masses:

- 1) 25 g of NaCl
- 2) 125 g of H₂SO₄
- 3) 100 g of KMnO₄
- 4) 74 g of KCl
- 5) 35 g of CuSO₄(H₂O)₅

Calculate the mass (in grams) of the following number of moles:

- 6) 2.5 mol of NaCl
- 7) 0.5 mole of H₂SO₄
- 8) 1.7 mol of KMnO₄
- 9) 0.25 mol of KCl
- 10) 3.2 mol of CuSO₄(H₂O)₅

Calculate how many atoms are in the following number of moles. Put your answer in scientific notation:

- 11) 2 moles
- 12) 1.5 moles
- 13) 0.75 moles
- 14) 15 moles
- 15) 0.35 moles

Calculate how many moles are in the following number of atoms.

- 16) 6.02×10^{23}
- 17) 1.204×10^{24}
- 18) 1.5×10^{20}
- 19) 3.4×10^{26}
- 20) 7.5×10^{19}

Calculate how many moles are in the following number of liters.

- 21) 1.5 liters
- 22) 10.9 liters
- 23) 4,560 liters
- 24) 8.3×10^{13} liters
- 25) 7.5×10^{-4} liters

Calculate how many atoms are in the following number of liters.

- 26) 3.5 liters
- 27) 148 liters
- 28) 0.75 liters

Calculate how many liters the following number of atoms would take up.

- 29) 4.6×10^{35} atoms
- 30) 2×10^{12} atoms
- 31) 7.65×10^{95} atoms

Calculate the mass of the following.

- 32) 35 liters of Cl₂ gas
- 33) 0.5 liters of CO₂ gas

Calculate the volume of the following.

- 34) 150 grams of Br₂ gas
- 35) 40 kg of water vapor gas

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