

Mole Basics

Mass

Number

g/mol
mol/g
Periodic
Table

Avogadro
 6.022×10^{23}

The Mole



The mole is
the heart of
the matter

22.4 L/mol
@ STP

Practice!

Liters

1) $3.46 \text{ g Fe} = \text{_____ atoms Fe}$

3) $106.5 \text{ g Ar} = \text{_____ L Ar}$

2) $0.47 \text{ mol Cu} = \text{_____ atoms Cu}$

4) $1.20 \times 10^{24} \text{ atoms Ca} = \text{_____ g Ca}$