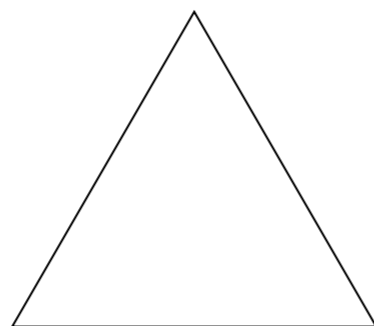


Higher
 Number of moles = $\frac{\text{mass (g)}}{\text{Relative mass (Ar or Mr)}}$



Mass =

Concentration = $\frac{\text{mass} \times 1000}{\text{Volume in cm}^3}$

Mass =

Volume =

What is the relative atomic mass

Na

Cl

H

O

C

S

Ca

N

Al

What is the relative formula mass?

CH₄

NH₃

CaCl₂

H₂SO₄

Al₂O₃

Ca(OH)₂

Al₂(SO₄)₃

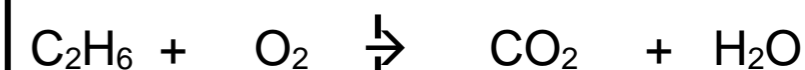
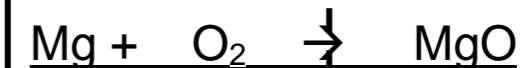
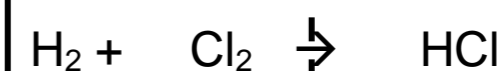
What is the mass of 1 mole of ...

MgO =

HCl =

10-1 Quantitative chemistry

Balance



Calculate the number of moles in

a. 40g of calcium

b. 46g of sodium

c. 14g of silicon

d. 53g of palladium

e. 216g of silver

f. 46g of tungsten

Calculate the mass of the following

a. 0.5 moles of magnesium

b. 2 moles of iron

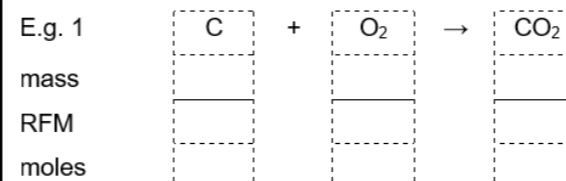
c. 4 moles of chlorine

d. 1 mole of xenon

e. 3 moles of zirconium

f. 0.25 moles of mercury

How much carbon dioxide will be produced if 6 g of carbon is burnt in oxygen?



2. What mass of calcium oxide can be produced from 550 g of calcium carbonate?

