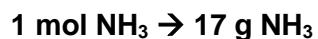


Nome: _____

01 – Qual a massa de 10 mols de amônia (NH₃)? (10 pontos)

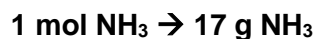
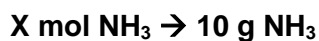
Resolução:



$$X = 170 \text{ g}$$

02 – Quantos mols de amônia (NH₃) existem em 10 g dessa substância? (10 pontos)

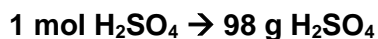
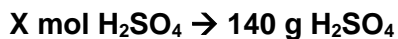
Resolução:



$$X = 0,59 \text{ mol}$$

03 – Quantos mols de ácido sulfúrico (H₂SO₄) existem em 140 g dessa substância? (10 pontos)

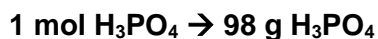
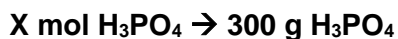
Resolução:



$$X = 1,43 \text{ mol}$$

04 – Quantos mols de ácido fosfórico (H₃PO₄) existem em 300 g dessa substância? (10 pontos)

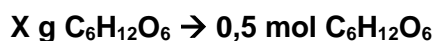
Resolução:



$$X = 3,06 \text{ mol}$$

05 – Qual a massa de 0,5 mols de glicose (C₆H₁₂O₆)? (10 pontos)

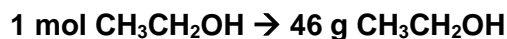
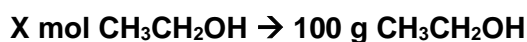
Resolução:



$$X = 90 \text{ g}$$

06 – Quantos mols de etanol ($\text{CH}_3\text{CH}_2\text{OH}$) existem em 100 g dessa substância? (10 pontos)

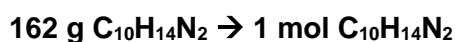
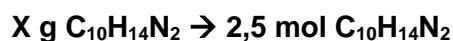
Resolução:



$$\mathbf{X = 2,17 \text{ mol}}$$

07 – Qual a massa de 2,5 mols de nicotina ($\text{C}_{10}\text{H}_{14}\text{N}_2$)? (10 pontos)

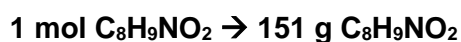
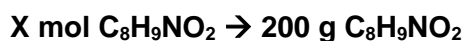
Resolução:



$$\mathbf{X = 405 \text{ g}}$$

08 – Quantos mols de paracetamol ($\text{C}_8\text{H}_9\text{NO}_2$) existem em 200 g dessa substância? (10 pontos)

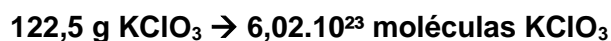
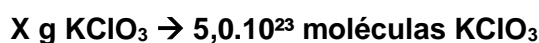
Resolução:



$$\mathbf{X = 1,32 \text{ mol}}$$

09 – Qual a massa de $5,0 \cdot 10^{23}$ moléculas de clorato de potássio (KClO_3)?

Resolução:



$$\mathbf{X = 101,74 \text{ g}}$$

10 – Quantas moléculas de ácido clorídrico (HCl) existem em 20 g dessa substância? (10 pontos)

Resolução:



$$\mathbf{X = 3,4 \cdot 10^{23} \text{ moléculas}}$$

GABARITO:

01 – 170 g

02 – 0,59 mol

03 – 1,43 mol

04 – 3,06 mol

05 – 90 g

06 – 2,17 mol

07 – 405 g

08 – 1,32 mol

09 – 101,74 g

10 – $3,4 \cdot 10^{23}$ moléculas