

Planche 3 chimie.

Exercice 1

$$1. C_6H_{12}O_6 = 6 \times 12 + 12 \times 1 + 6 \times 16 = 180 \text{ g/mol}$$

$$2. n = \frac{m}{M} = n = \frac{630}{180} = 3,500 \text{ moles.}$$

Exercice 2

$$1. n(H_2SO_4) = 2 \times 1 + 1 \times 32 + 4 \times 16 = 98 \text{ g/mol}$$

$$n = \frac{m}{M} = n = \frac{5,8}{98} = 0,059 \text{ moles.}$$

$$2. \frac{98}{73,5} = 1,33 \text{ moles.}$$

Exercice 3

$$1. n(NaOH) = 1 \times 23 + 1 \times 16 + 1 \times 1 = 40 \text{ g/mol}$$

$$2. n = \frac{m}{M} ; n = \frac{28}{40} = 0,700 \text{ moles.}$$

$$2-1. n(C_4H_{10}) = 4 \times 12 + 10 \times 1 = 58 \text{ g/mol}$$

$$n = \frac{3,48}{58} = 0,060 \text{ moles.}$$

$$3. n(C_2H_5-OH) = 2 \times 12 + 6 \times 1 + 1 \times 16 = 46 \text{ g/mol}$$

$$n = \frac{20,7}{46} = 0,45 \text{ moles.}$$

Exercice 4

$$1. n = \frac{V}{V_m}$$

$$n = \frac{4,8}{22,4} = 0,21 \text{ moles.}$$