

QUÍMICA

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LEMBRANDO:

Massas: $1\text{Kg} = 10^3\text{g}$ $1\text{ton} = 10^6\text{g}$ $1\text{mg} = 10^{-3}\text{g}$
 Volumes: $1\text{m}^3 = 10^3\text{L}$ ou 10^6mL $1\text{dm}^3 = 1\text{L}$ ou 10^3mL $1\text{cm}^3 = 1\text{mL}$

EXERCÍCIOS PROPOSTOS

01 Transforme em gramas as seguintes massas:

- a) 2 ton = ____g
- b) 50 kg = ____g
- c) 600 mg = ____g
- d) 0,5 ton = ____g
- e) 1,4 kg = ____g
- f) 1200 mg = ____g

02 Faça as conversões de massa indicadas:

- a) 0,2 ton = ____kg
- b) 50 kg = ____mg
- c) 420 mg = ____g
- d) 3000 g = ____kg
- e) 5 kg = ____g
- f) 710 mg = ____kg

03 Transforme em litros os seguintes volumes:

- a) $7,5\text{ m}^3 = \text{____L}$
- b) $0,25\text{ dm}^3 = \text{____L}$
- c) $400\text{ cm}^3 = \text{____L}$
- d) $50\text{ mL} = \text{____L}$
- e) $5\text{ m}^3 = \text{____L}$
- f) $100\text{ mL} = \text{____L}$

04 Faça as conversões de volume indicadas:

- a) $0,3\text{ L} = \text{____mL}$
- b) $50\text{ dm}^3 = \text{____cm}^3$
- c) $300\text{ cm}^3 = \text{____dm}^3$
- d) $30\text{ mL} = \text{____cm}^3$
- e) $3\text{ m}^3 = \text{____dm}^3$
- f) $45\text{ dm}^3 = \text{____m}^3$

GABARITO

01

- a) $2 \text{ ton} = 2 \cdot 10^6 \text{ g}$
- b) $50 \text{ kg} = 50.000 \text{ g}$ ou $5 \cdot 10^4 \text{ g}$
- c) $600 \text{ mg} = 0,6 \text{ g}$
- d) $0,5 \text{ ton} = 0,5 \cdot 10^6 \text{ g}$
- e) $1,4 \text{ kg} = 1.400 \text{ g}$
- f) $1200 \text{ mg} = 1,2 \text{ g}$

02

- a) $0,2 \text{ ton} = 200 \text{ kg}$
- b) $50 \text{ kg} = 50 \cdot 10^6 \text{ mg}$
- c) $420 \text{ mg} = 0,42 \text{ g}$
- d) $3000 \text{ g} = 3 \text{ kg}$
- e) $5 \text{ kg} = 5000 \text{ g}$
- f) $710 \text{ mg} = 7,1 \cdot 10^{-4} \text{ kg}$

03

- a) $7,5 \text{ m}^3 = 7500 \text{ L}$
- b) $0,25 \text{ dm}^3 = 0,25 \text{ L}$
- c) $400 \text{ cm}^3 = 0,4 \text{ L}$
- d) $50 \text{ mL} = 0,05 \text{ L}$
- e) $5 \text{ m}^3 = 5000 \text{ L}$
- f) $100 \text{ mL} = 0,1 \text{ L}$

04

- a) $0,3 \text{ L} = 300 \text{ mL}$
- b) $50 \text{ dm}^3 = 50.000 \text{ cm}^3$
- c) $300 \text{ cm}^3 = 0,3 \text{ dm}^3$
- d) $30 \text{ mL} = 30 \text{ cm}^3$
- e) $3 \text{ m}^3 = 3.000 \text{ dm}^3$
- f) $45 \text{ dm}^3 = 0,045 \text{ m}^3$