

1. Ułamki

$$\frac{1}{2} * 5 = \frac{1}{2} * \frac{5}{1} = \frac{5}{2} = 2,5$$

$$\frac{2}{3} * 4 = \frac{2}{3} * \frac{4}{1} = \frac{8}{3} = 2\frac{2}{3}$$

$$\frac{10}{20} : 4 = \frac{10}{20} * \frac{1}{4} = \frac{5}{40} = \frac{1}{8}$$

$$\frac{9}{2} : \frac{90}{36} = \frac{9}{2} * \frac{36}{90} = \frac{18}{10} = 1,8$$

2. Zamiana jednostek

$$1 \text{ hPa} = 100 \text{ Pa}$$

$$1 \text{ mm}^2 = 0.000001 \text{ m}^2$$

$$3 \text{ min} = 180 \text{ sec}$$

$$20 \frac{\text{kg}}{\text{m}^3} = \frac{20000\text{g}}{1000000\text{cm}^3} = \frac{2\text{g}}{100\text{cm}^3} = 0,02 \frac{\text{g}}{\text{cm}^3}$$

3. Przekształcanie wzorów

* Wyprowadzamy wzór na (S)

$$P = \frac{F}{S}$$

$$F = P * S$$

$$S = \frac{F}{P}$$

* Wyprowadzamy wzór na (t)

$$S = \frac{a * t^2}{2}$$

$$2S = a * t^2$$

$$\frac{2S}{a} = t^2$$

$$t = \sqrt{\frac{2S}{a}}$$

4. Zamiana jednostek (ściąga)

Jednostki długości

$$1 \text{ km} = 1000 \text{ m} \quad \square \quad 1 \text{ cm} = 0,001 \text{ km}$$

$$1 \text{ m} = 100 \text{ cm} \quad \square \quad 1 \text{ cm} = 0,01 \text{ m}$$

$$1 \text{ m} = 10 \text{ dm} \quad \square \quad 1 \text{ dm} = 0,1 \text{ m}$$

$$1 \text{ dm} = 10 \text{ cm} \quad \square \quad 1 \text{ cm} = 0,1 \text{ dm}$$

$$1 \text{ cm} = 10 \text{ mm} \quad \square \quad 1 \text{ mm} = 0,1 \text{ cm}$$

Jednostki masy

$$1 \text{ kg} = 1000 \text{ g} \quad \square \quad 1 \text{ g} = 0,001 \text{ kg}$$

$$1 \text{ kg} = 100 \text{ dag} \quad \square \quad 1 \text{ dag} = 0,01 \text{ kg}$$

$$1 \text{ dag} = 10 \text{ g} \quad \square \quad 1 \text{ g} = 0,1 \text{ dag}$$

$$1 \text{ t} = 1000 \text{ kg} \quad \square \quad 1 \text{ kg} = 0,001 \text{ t}$$

$$1 \text{ g} = 1000 \text{ mg} \quad \square \quad 1 \text{ mg} = 0,001 \text{ g}$$

Jednostki pola

$$1 \text{ km}^2 = 1000000 \text{ m}^2 \quad \square \quad 1 \text{ m}^2 = 0,000001 \text{ km}^2$$

$$1 \text{ m}^2 = 10000 \text{ cm}^2 \quad \square \quad 1 \text{ cm}^2 = 0,0001 \text{ m}^2$$

$$1 \text{ m}^2 = 100 \text{ dm}^2 \quad \square \quad 1 \text{ dm}^2 = 0,01 \text{ m}^2$$

$$1 \text{ dm}^2 = 100 \text{ cm}^2 \quad \square \quad 1 \text{ cm}^2 = 0,01 \text{ dm}^2$$

$$1 \text{ cm}^2 = 100 \text{ mm}^2 \quad \square \quad 1 \text{ mm}^2 = 0,01 \text{ cm}^2$$

$$1 \text{ a} = 100 \text{ m}^2 \quad \square \quad 100 \text{ m}^2 = 0,01 \text{ a}$$

$$1 \text{ ha} = 100 \text{ a} \quad \square \quad 1 \text{ a} = 0,01 \text{ ha}$$

Jednostki objętości

$$1 \text{ m}^3 = 1000000 \text{ cm}^3 \quad \square \quad 1 \text{ cm}^3 = 0,000001 \text{ m}^3$$

$$1 \text{ m}^3 = 1000 \text{ dm}^3 \quad \square \quad 1 \text{ dm}^3 = 0,001 \text{ m}^3$$

$$1 \text{ dm}^3 = 1000 \text{ cm}^3 \quad \square \quad 1 \text{ cm}^3 = 0,001 \text{ dm}^3$$

$$1 \text{ cm}^3 = 1000 \text{ mm}^3 \quad \square \quad 1 \text{ mm}^3 = 0,001 \text{ cm}^3$$

Jednostki pojemności

$$1 \text{ hl} = 100 \text{ l} \quad \square \quad 1 \text{ l} = 0,01 \text{ hl}$$

$$1 \text{ l} = 1000 \text{ ml} \quad \square \quad 1 \text{ ml} = 0,001 \text{ l}$$