

N 2

Дано:

$$a = 50 \text{ см}$$

$$b = 50 \text{ см}$$

$$h = 30 \text{ см}$$

$$d = 5 \text{ см}$$

$$\rho = 0,60 \frac{\text{кг}}{\text{гм}^3}$$

$$g = 10 \frac{\text{м}}{\text{с}^2}$$

$p = ?$

СМ

$$600 \frac{\text{кг}}{\text{см}^3}$$

08-01

Решение:

$$V_1 = 50 \text{ см} \cdot 50 \text{ см} \cdot 30 \text{ см} = 75000 \text{ см}^3$$

$$V_2 = 40 \text{ см} \cdot 40 \text{ см} \cdot 35 \text{ см} = 56000 \text{ см}^3$$

$$V = V_1 - V_2 \neq$$

$$V = 75000 \text{ см}^3 - 56000 \text{ см}^3 = 19000 \text{ см}^3$$

$$m = \rho V$$

$$m = 600 \frac{\text{кг}}{\text{см}^3} \cdot 19000 \text{ см}^3 = 114 \cdot 10^5 \text{ кг}$$

$$F_{\text{тяж}} = g m$$

$$F_{\text{тяж}} = 10 \frac{\text{м}}{\text{с}^2} \cdot 114 \cdot 10^5 \text{ кг} = 114 \cdot 10^6 \text{ Н}$$

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

$$S p = a b$$

$$S = 50 \text{ см} \cdot 50 \text{ см} = 2500 \text{ см}^2$$

$$p = \frac{114 \cdot 10^6 \text{ Н}}{2500 \text{ см}^2} = 45600 \frac{\text{Н}}{\text{см}^2}$$

$$\text{Ответ: } 45600 \frac{\text{Н}}{\text{см}^2}$$

48.

N 1

Дано:

$$S = 200 \text{ м}$$

$$t = 40 \text{ с}$$

$$\Delta t = 10 \text{ с}$$

$v_3 = ?$

Решение:

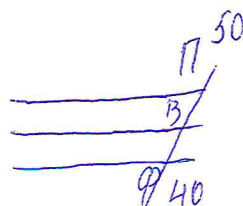
$$v_1 = 200 \text{ м} : 40 \text{ с} = 5 \text{ м/с}$$

$$t_2 = 40 \text{ с} + 10 \text{ с} = 50 \text{ с}$$

$$v_2 = 200 \text{ м} : 50 \text{ с} = 4 \text{ м/с}$$

$$v_3 = 200 \text{ м} : 45 \text{ с} = 4,5 \text{ м/с}$$

$$\text{Ответ: } 4,5 \text{ м/с}$$



108.

N4

Дано:

$$t_0 = 100^\circ \text{C}$$

$$m_1 = m_2$$

$$5m > (m_1 + m_2)$$

$$t_1 = 0^\circ \text{C}$$

$$c = 4200 \frac{\text{Дж}}{\text{кг} \cdot ^\circ \text{C}}$$

$$L = 2,3 \cdot 10^6 \frac{\text{Дж}}{\text{кг}}$$

$t = ?$

Решение:

$$Q = cm(t_2 - t_1)$$

$$Q = Lm$$

~~m~~

05.

Умно 145

Всего

М