

№ 1

$$L = 0,75 \text{ м}$$

$$t = \frac{60}{400} = 0,15 \text{ с} - \text{время на один шаг}$$

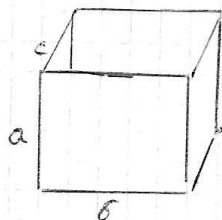
$$v = \frac{L}{t} = \frac{0,75}{0,15} = 5 \text{ м/с}$$

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$$5 - 1,5 - 1,5 - 1,5 = 0,5 \text{ м}$$

в 50 см от задней части

№ 3



$$P_2 = 2 \text{ кПа}$$

$$P_1 = \frac{P_2}{2} = 1 \text{ кПа}$$

$$P_3 = 3 \cdot P_1 = 3 \text{ кПа}$$

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

$$1) S = ac$$

$$2) S = ab$$

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$$3) S = bc$$

$$1) P_1 = \frac{mg}{ac} = 1 \text{ кПа}$$

$$2) P_2 = \frac{mg}{ab} = 2 \text{ кПа}$$

$$3) P_3 = \frac{mg}{bc} = 3 \text{ кПа}$$

$$C = 36$$

$$b = \frac{a}{2}$$

$$a = \frac{3}{2} C$$

$$C = 9$$

$$a = 1,5$$

$$b = 0,75$$

$$V = 9 \cdot 1,5 \cdot 0,75 = 10,125$$

$$\rho = \frac{540}{10,125} = 53 \frac{\text{kg}}{\text{m}^3}$$

№ 2

$$a) 2 \cdot 2m = m \cdot 1 \quad m = 4$$

$$b) 3 \cdot 2m = m \cdot 3 \quad m = 2$$

$$c) 3 \cdot 3m + m \cdot 1 = 2 \cdot m \cdot 2 + 3 \cdot m = m = 1$$

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