

5. Füzeci simül

1.

1300 m

26 m

28 m

12 m

$\frac{1}{7}$ din 26 m

14 m

50% din 28 m

$$14 + 12 + 28 + 26 = 40 + 44 = 84 \text{ m}$$

$$1200 - 91 = 1210 \text{ m}$$

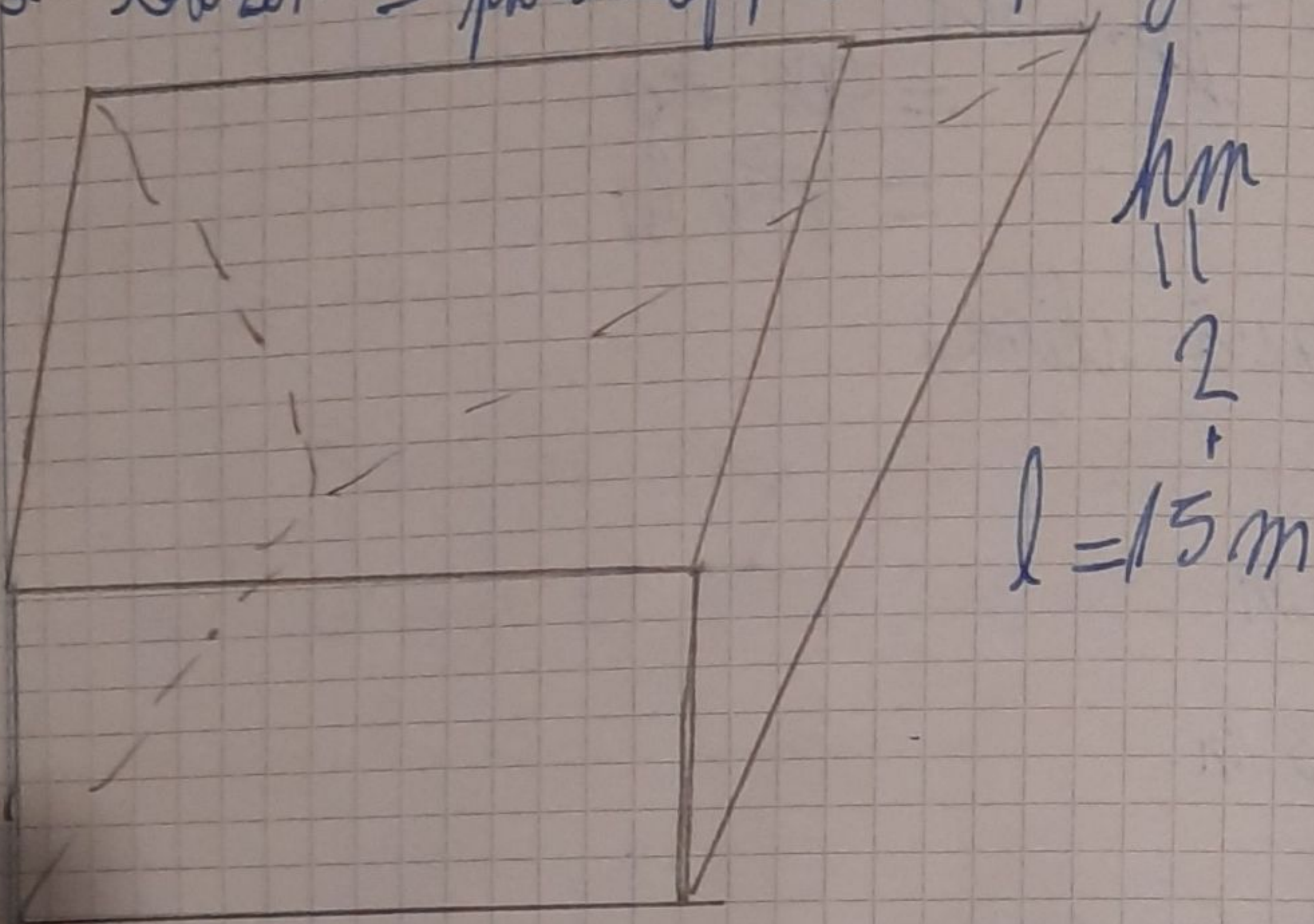
$$2. \quad 14^{00} - 16^{00} \Rightarrow 2 \text{ jam } 30 \text{ min}$$

30 min. pindah \Rightarrow 2 jam dipindah 2 jam

$$V = \frac{3500 \text{ m}}{2 \text{ h}} = 1750 \text{ m/h} = 1,75 \text{ km/h}$$

$$V = \frac{\text{distance}}{\text{time}} \quad 1750 \text{ m} = \frac{1750}{1000} \text{ km} = 1,75$$

3. bezen \Rightarrow paralelipiped dreptunghic



$$L = 60 \text{ m}$$

$$V = 1,350.000 \text{ l} \rightarrow \text{volumul (capacitatea)}$$

$$V \text{ paralelipiped dreptunghic} = L \cdot l \cdot h = 60 \text{ m} \cdot 15 \text{ m} \cdot h \text{ m} \\ = 900h \text{ m}^3$$

$$1 \text{ km} = 1000 \text{ m}$$

$$1 \text{ km}^3 = 1000^3 \text{ m}^3$$

$$1 \text{ m} = 10 \text{ dm}$$

$$1 \text{ m}^3 = 10^3 \text{ dm}^3 = 1000 \text{ dm}^3 = 1000 \text{ l}$$

$$1 \text{ dm}^3 = 1 \text{ l}$$

$$V = 1.350.000 \text{ l} = \frac{1.350.000}{1000} \text{ m}^3$$

$$V = 1350 \text{ m}^3$$

$$900 \text{ h} \cdot \text{m}^3 = 1350 \text{ m}^3 \Rightarrow h = \frac{1350}{900} = \frac{270}{18}$$

$$h = \frac{3}{2} = 1,5 \text{ (m)}$$

4. 12 cabinets 70 are
 12 cabinets ~~24~~ are

$$\frac{12}{9} = \frac{x}{20} \Rightarrow x = 260$$

$$x = 240$$

$$192 \dots \dots 240 \text{ h}$$

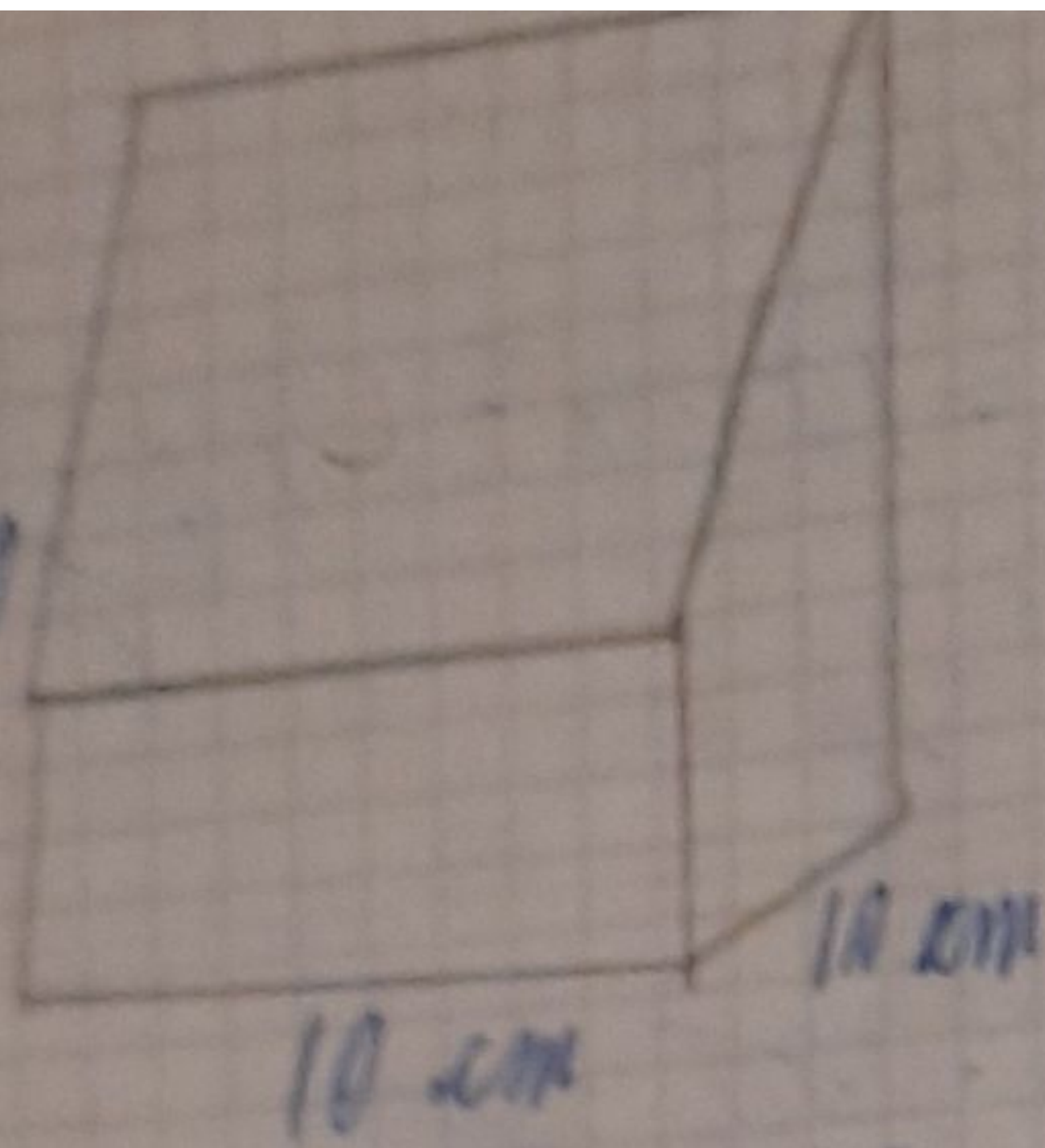
$$\times 2 \dots \dots 24 \text{ h}$$

$$\frac{1}{x} = \frac{24}{240} \Rightarrow 24x = 240$$

$$x = 10$$

5

$l=10$



$$V_{\text{cube}} = l \cdot l \cdot l = l^3$$

$$V = 10^3 \text{ cm}^3 = 1000 \text{ cm}^3$$

$$\rho = \text{mass} = 2 \text{ kg } 650 \text{ g}$$

$$= 2000 \text{ g} + 650 \text{ g} = 2650 \text{ g}$$

$$\rho = \frac{m}{V} \rightarrow \text{densitatea}$$

$$\rho = \frac{2650 \text{ g}}{1000 \text{ cm}^3} = 2,65 \frac{\text{g}}{\text{cm}^3}$$

$$6. \rho = 0,5 \text{ g/cm}^3 = \frac{500 \text{ g}}{1000 \text{ cm}^3} = \frac{500 \text{ g}}{1 \text{ dm}^3}$$



$$\rho = \frac{m}{V} \Rightarrow \frac{500 \text{ g}}{1 \text{ dm}^3} = \frac{15 \text{ kg}}{x}$$

$$\frac{500 \text{ g}}{1 \text{ dm}^3} = \frac{15000 \text{ g}}{x} \quad | : 100$$

$$\frac{5}{dm^3} = \frac{150}{x} \Leftrightarrow x = 5 \cdot 150 \text{ dm}^3 / 5$$

$$x = 30 \text{ dm}^3$$

$$m = 3 \text{ kg}$$

$$V_i = 250 \text{ cm}^3$$

$$V_f = V_i + \frac{20}{100} \cdot V_i = V_i + V_i \cdot \frac{20}{100}$$

$$= 250 \text{ cm}^3 + 50 \text{ cm}^3$$

$$V_f = 300 \text{ cm}^3$$

$$\rho_f = \frac{m}{V_f} = \frac{3 \text{ kg}}{300 \text{ cm}^3} = \frac{1 \text{ kg}}{100 \text{ cm}^3} = \frac{0,01 \text{ kg}}{\text{cm}^3}$$

~~$d = 2,75$
 $C = \frac{m_d}{m_s} \cdot 100$~~

$$C = \frac{17}{100}$$

$$m_s = 2,75 \text{ tane} = 2,75 \cdot 1000 \text{ kg}$$

$$2750 \text{ kg}$$

$$\frac{17}{100} = \frac{m_d}{2750 \text{ kg}} \Leftrightarrow m_d = \frac{2750 \cdot 17}{100}$$

$$= \frac{4675}{10} = 467,5 \text{ kg}$$