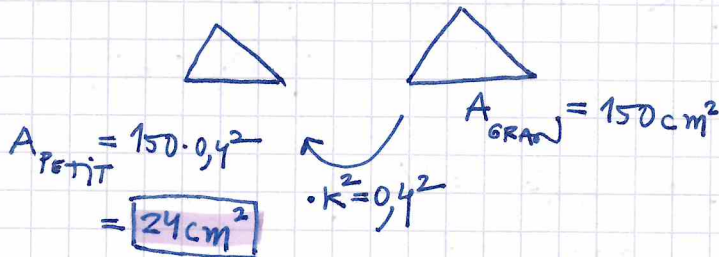


SEMBLANÇA

p. 127

(11) $k = \frac{2}{5} = 0,4 < 1$ (redução)



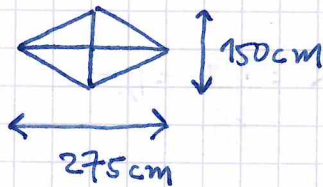
p. 128

(14) $1:200 \Rightarrow k = 200$

$A_{real} = A_{plano} \cdot k^2$

$A_{real} = 7 \cdot 200^2 = 280000 \text{ cm}^2 = 28 \text{ m}^2$

(15)



$1:25$

$\Rightarrow k = 25$

$A_{real} = \frac{275 \cdot 150}{2} = 20625 \text{ cm}^2$

$A_{real} = A_{plano} \cdot k^2$

$A_{plano} = \frac{20625}{25^2} = 33 \text{ cm}^2$

(16) $1:250$

a) Altura: magneta
6 cm

Diâmetro: 4 cm

real

$6 \cdot 250 = 1500 \text{ cm} = 15 \text{ m}$

$4 \cdot 250 = 1000 \text{ cm} = 10 \text{ m}$

$\cdot 250$

$$m^3 \quad dm^3 \quad cm^3$$

$$b) A_{real} = A_{magueta} \cdot k^2$$

$$A_{real} = 40 cm^2 \cdot 250^2 = 2500000 = \boxed{250 m^2}$$

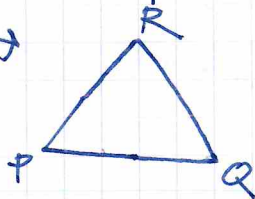
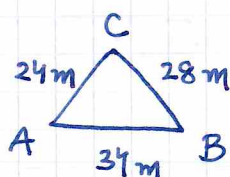
$$c) V_{real} = V_{magueta} \cdot k^3 = 20 \cdot 250^3 = 312500000 cm^3 = \boxed{312,5 m^3}$$

$$d) 312500 L = 312500 dm^3 = V_{real} \\ = 312500000 cm^3$$

$$V_{real} = V_{magueta} \cdot k^3$$

$$V_{magueta} = 312500000 : 250^3 = \boxed{20 cm^3}$$

18)



$$P = 129 m$$

$$P = 24 + 34 + 28 = 86 m$$

$$K = \frac{129}{86} = 1,5$$

~~Amajor~~

6 STATS 2n:
triangle

$$24 \cdot 1,5 = \boxed{36 m}$$

$$28 \cdot 1,5 = \boxed{42 m}$$

$$34 \cdot 1,5 = \boxed{51 m}$$

19)

$$8 \cdot K = 13,6$$

$$K = \frac{13,6}{8} = 1,7$$

$$A_{major} = A_{menor} \cdot 1,7^2 = 26 \cdot 1,7^2 = \boxed{75,14 cm^2}$$

||
26 cm²

P. 129

(25)



$$V = 100 \text{ m}^3$$



$$V = 250 \text{ m}^3$$

$$V_{\text{cylindre}} = \pi r^2 h$$

$$V_{\text{PETIT}} = 100 \text{ m}^3 \Rightarrow 100 = \pi \cdot r^2 \cdot 1,5$$

$$h_{\text{PETIT}} = 1,5 \text{ m}$$

$$r^2 = \frac{100}{1,5\pi}$$

$$r_{\text{PETIT}} = \sqrt{\frac{100}{1,5\pi}} \approx 4,61 \text{ m}$$

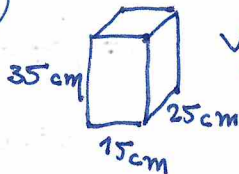
$$V_{\text{GRAN}} = k^3 \cdot V_{\text{PETIT}}$$

$$k = \sqrt[3]{\frac{250}{100}} = \sqrt[3]{2,5} \approx 1,36$$

$$r_{\text{GRAN}} = r_{\text{PETIT}} \cdot k = 4,61 \cdot 1,36 = \boxed{6,27 \text{ m}}$$

$$\sqrt[3]{2,5} \cdot \sqrt{\frac{100}{1,5\pi}} = 6,25 \text{ m}$$

(26)



$$V = 36105 \text{ cm}^3$$

$$V_{\text{real}} = k^3 \cdot V_{\text{maqueta}}$$

$$36105 \text{ cm}^3$$

$$15 \cdot 35 \cdot 25 = 13125 \text{ cm}^3$$

$$k = \sqrt[3]{\frac{36105}{13125}} \approx 1,4$$

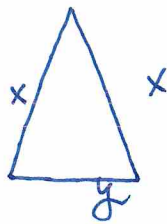
ARESTES:

$$35 \cdot 1,4 = \boxed{49 \text{ cm}}$$

$$25 \cdot 1,4 = \boxed{35 \text{ cm}}$$

$$15 \cdot 1,4 = \boxed{21 \text{ cm}}$$

(27)



TRIANGLE 1

$$P = 2x + y = 64 \text{ m}$$

↑
14

$$2x = 64 - 14$$

$$2x = 50$$

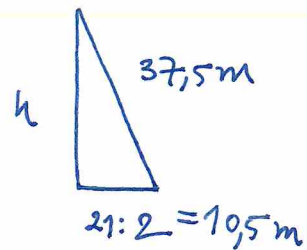
$$x = \frac{50}{2} = 25 \xrightarrow{\cdot 1,5} 25 \cdot 1,5 = \boxed{37,5 \text{ m}}$$

$$y = 14 \xrightarrow{\cdot 1,5} 14 \cdot 1,5 = \boxed{21 \text{ m}}$$

$$\rightarrow \cdot k = \frac{96}{64} = 1,5$$

TRIANGLE 2

$$P = 96 \text{ m}$$



Th. Pitàgoras

$$37,5^2 = h^2 + 10,5^2$$

$$h = \sqrt{37,5^2 - 10,5^2}$$

$$h = 36 \text{ m}$$

$$A = \frac{b \cdot h}{2} = \frac{21 \cdot 36}{2}$$

$$= \boxed{378 \text{ m}^2}$$

R/
/