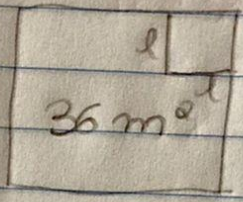
1- 400 peças iguais, área da sala é $36 m^2$

a- área de cada peça

$$A = \frac{36}{400} = 0,09 m^2$$

m^2

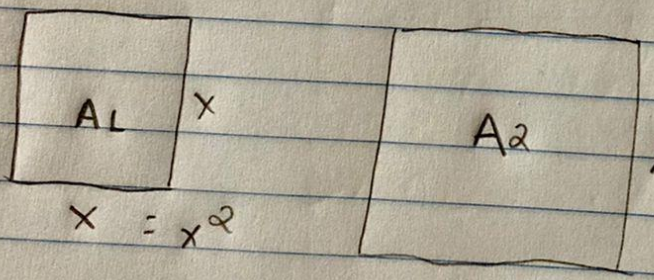


B- perímetro de cada peça

$l^2 = 0,09 m^2$

$\sqrt{0,09} = 0,3$ $\quad l_4 = 4 \cdot 0,3 = 1,2m$

2-



$x = x^2$

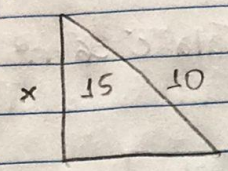
$y = y^2$

2 - dobro

$y = 2 \cdot x$

$y = \sqrt{2}\, x = y = \sqrt{2} \cdot x$

3.



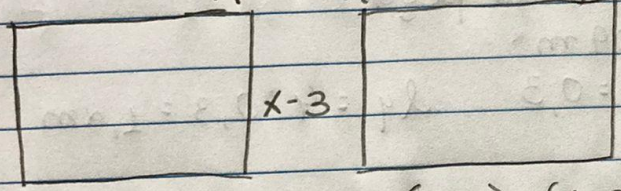
descobrir área = $A = \frac{a \cdot h}{2}$

$\frac{15}{x} = \frac{10}{2}$ $\quad 10x = 30$

$x = \frac{30}{10}$

$x = 3$

4.



$A = (x+1) \cdot (x-2) + 16$

$(x \cdot (x-3)) + 16 = (x+1) \cdot (x-2)$

$x^2 - 3x + 16 = x^2 - 2x + x - 2 = x^2 - 3 + 16$

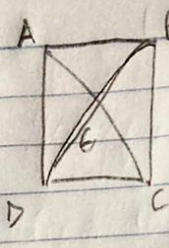
$3x = 16 + 2 = x^2 - x^2 - x$

$x = \frac{18}{2} = 9m$

$(9+1) \cdot (9-2) = A$

$A = 10 \cdot 7 = 70 m^2$

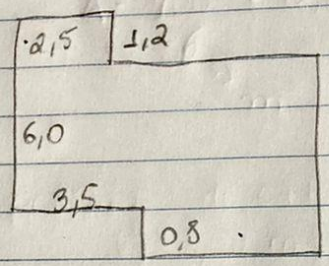
5.



medem 2

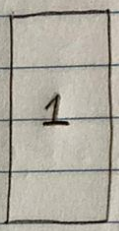
$$A = \frac{4 \cdot \sqrt{3}}{4} = \sqrt{3}$$

6

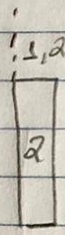


área dessa sala em metros quadrados?

Separar

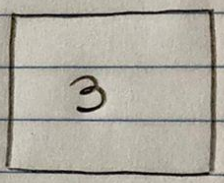


$6,0 \cdot 2,5 = 15 m^2$



$6 - 1,2 = 4,8$; $4,8\ m^2$

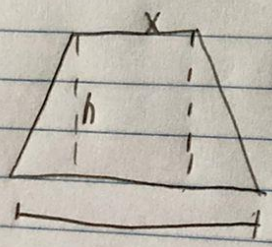
$3,5 - 2,5 = 1$



$4 \cdot 5,6 = 22,4 m$

Total $= 42,2 m^2$ ∈

7



$A_0 = 36\ cm$

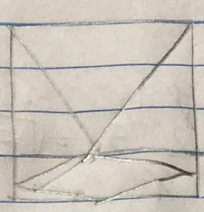
$$A = \frac{(2x + x) \cdot h}{2}$$

$$36 = \frac{3x \cdot h}{2}$$

$x \cdot h = 72 = 3x \cdot h$

$$x \cdot h = \frac{72}{3} = 24\ cm^2$$

8-

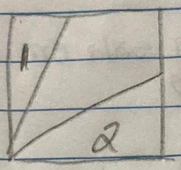


$\frac{6 \cdot 2}{2} = 6\ cm^2$

$\frac{6}{12} = \frac{1}{2}$

$\frac{6 \cdot 4}{2} = 12\ cm^2$

9-



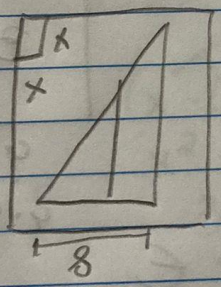
$I = 48$ $\quad I = \frac{3b}{4} \cdot \frac{h}{2}$ $\quad II = \frac{b}{3} \cdot \frac{h}{1}$

$48 - 36 \cdot h - b\frac{h}{3} \cdot \frac{1}{2}$

$48 - 18 - 8 = 22$

6

10.

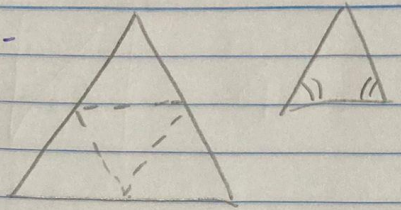


$\left(\frac{AD}{8}\right)^2 = \frac{1/2 \cdot A_{ABC}}{A_{ABC}}$

$\frac{AD}{64} \quad \frac{1}{2}$ $\quad 2AD^2 = 64 \quad \sqrt{32}$

$4\sqrt{2}$

11-



$\frac{A_{AMN}}{A_{ABC}} = \left(\frac{1}{2}\right)^2 = \frac{1}{4}$

$A_{AMN} = \frac{96}{4} = 24m$

$96 - 24 = 72m^2$