CREATE IT.

a)

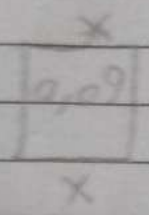
1) área = 36 m²
x = cada peça

$36\,m^2 = 400 \cdot x \Rightarrow x = \frac{9}{100}$

$x = \frac{36 \div 4}{400 \div 4}$

$x = 0{,}09\ m^2$

b)



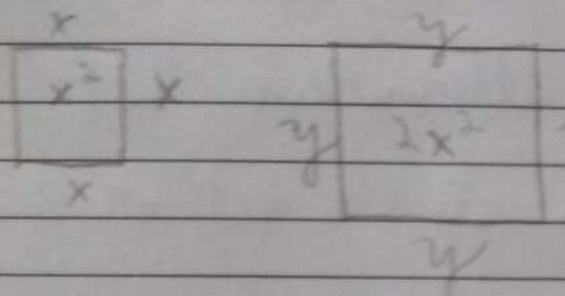
$x^2 = 0{,}09$

$x = \sqrt{0{,}09} \Rightarrow 0{,}3$

$2P = 4 \cdot 0{,}3\ m$

$2P = 1{,}2\ m$

2)



$2x^2 = y^2 \rightarrow y = \sqrt{2x^2}$

$y = x\sqrt{2}$

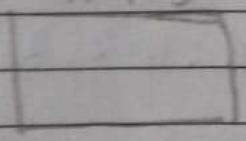
Alternativa (D)

3) $a = \frac{b \cdot h}{2} \rightarrow 75 = \frac{10 \cdot h}{2} \rightarrow h = \frac{30}{10} =$

$h = 3$

alternativa (D)

4)



$a = x \cdot x + 3 \Rightarrow a = x^2 + 3x$

$a + 76 = (x+7) \cdot (x+4)$

$x^2 + 4x + x + 4$

$x^2 + 5x + 4 =$

$-S = x^2 + 5x - 72$

$S = x^2 + 3x$

$0 = 2x - 72 \rightarrow$ cada lado $\Rightarrow x = \frac{72}{2} = 6$

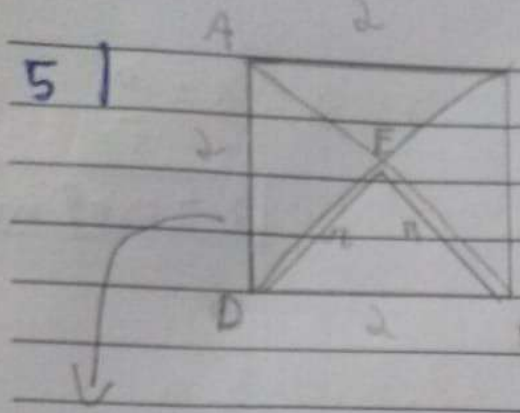
área ampliada = $(6+7) \cdot ((6+3)+1)$

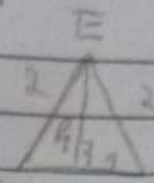
$7 \cdot 10$

área = $70\ m^2$

CREATE IT.

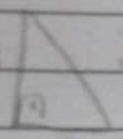
5)





$n = 2$

$a = \frac{b \cdot h}{2} = \frac{2 \cdot \sqrt{3}}{2}$



$2^2 = h^2 + 1^2$

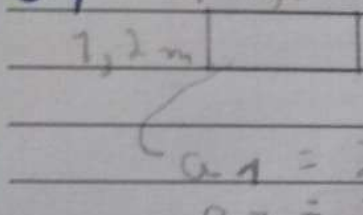
$h^2 = 4 - 1$

$h = \sqrt{3}$

$a = \sqrt{3}$

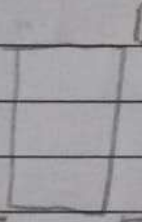
alternativa (B)

6)



$a_1 = 2,5 \cdot 1,2$

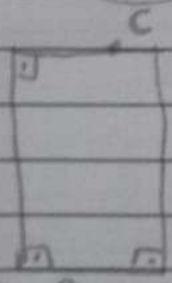
$a_1 = 3\ m^2$



$4,8 + 0,8 = 5,6$

$a_2 = 5,6 \cdot 4$

$a_2 = 22,4\ m^2$



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

$a_3 = 4,8 \cdot 3,5$

$a_3 = 16,8\ m^2$

$a_{total} = 22,4 + 16,8 + 3$

$a_{total} = 42,2$

alternativa (E)

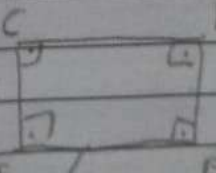
7) $\overline{AB} = 2\,\overline{CD}$

$36 = \frac{(2\overline{CD} + \overline{CD}) \cdot h}{2}$

$72 = 3\overline{CD} \cdot h$

$\overline{CD} \cdot h = \frac{72}{3}$

$\overline{CD} \cdot h = 24$

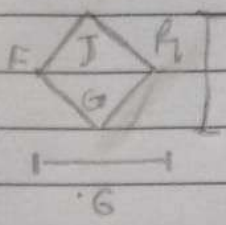


$a = \overline{CD} \cdot h = 24\ cm^2$

alternativa (E)

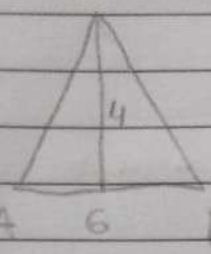
CREATE IT.

8)



$a_1 = \frac{2 \cdot 6}{2}$

$a_1 = 6\ cm^2$

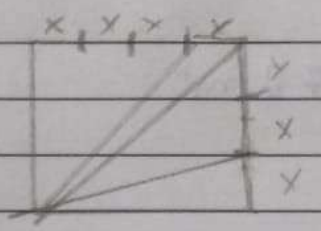


$a_2 = \frac{6 \cdot 4}{2} = 12\ cm^2$

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

alternativa (D)

9)

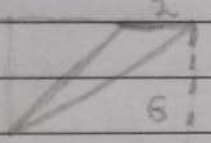


$48 = 4x \cdot 3x \Rightarrow x = \sqrt{4}$

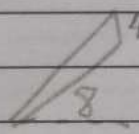
$48 = 12x^2$

$x = 2$

$x^2 = \frac{48}{12} \Rightarrow 4$



$a_1 = \frac{2 \cdot 6}{2} = 6$

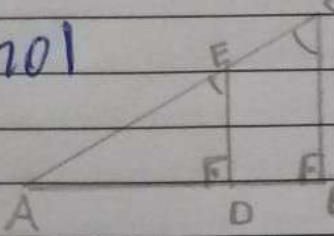


$a_2 = \frac{4 \cdot 8}{2} \Rightarrow 16$

$a_{total} = 6 + 16$

22 alternativa (E)

10)



$AB = 8u$

$BC = 6u$

$S_{ABC} = \frac{8 \cdot 6}{2} = 24\ u^2$

$S_{ADE} = \frac{24}{2} = 12\ u^2$

$\frac{A}{A'} = K^2 = \left(\frac{a}{a}\right)^2 \Rightarrow \frac{12}{24} = \left(\frac{AD}{8}\right)^2 \rightarrow \frac{1}{2} = \frac{AD^2}{64}$

$AD^2 = \frac{64}{2}$

$AD = \sqrt{32}$

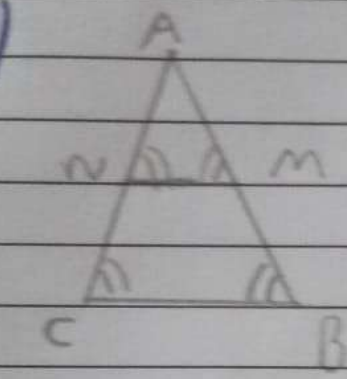
$AD = \sqrt{2^2 \cdot 2^2 \cdot 2}$

$AD = 4\sqrt{2}$

32	2^2
16	2
8	2^2
4	2
2	2
1	

alternativa (A)

11)



$S_{ABC} = 96\ m^2$

$MN = \frac{1}{2} BC$

$\Delta AMN \sim \Delta ABC$

$\frac{S_{AMN}}{S_{ABC}} = \frac{1}{4}$

$S_{AMN} = \frac{1}{4} S_{ABC}$

$S_{BMNC} = S_{ABC} - S_{AMN}$

$S_{BMNC} = 96 - \frac{1}{4} \cdot 96$

$S_{BMNC} = 96 - 24$

$S_{BMNC} = 72\ m^2$