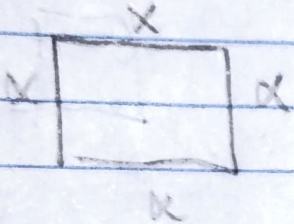
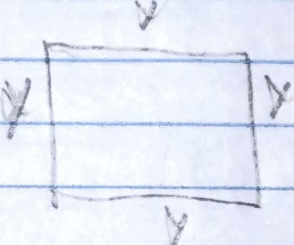
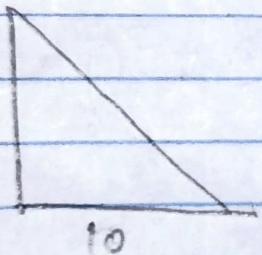


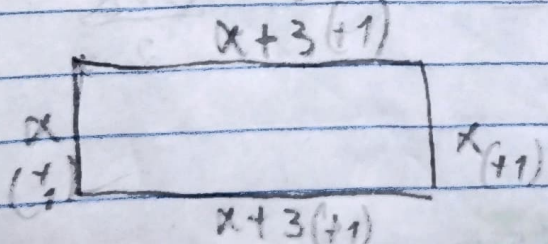
Exercícios

01- a) Para cobrir 36 m^2 com 400 peças, qual a área de cada peça?
 $\frac{36}{400} = 0,09 \text{ m}^2$

b) $A_{\square} = l \cdot l$
 $0,09 = l^2$
 $l = \sqrt{0,09} = 0,3$
 $P_{\square} = 0,3 \cdot 4$
 $P_{\square} = 1,2 \text{ m}$

02-  $A = x^2$  $2A = y^2$
 $y^2 = 2x^2$ (D)
 $y = \sqrt{2x^2}$
 $y = x\sqrt{2}$

03-  $A_{\Delta} = 15$
 $A_{\Delta} = \frac{b \cdot h}{2} \rightarrow 15 = \frac{10 \cdot h}{2} \rightarrow h = \frac{30}{10}$
 $h = 3$ (D)

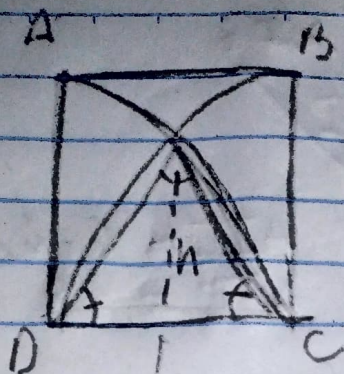
04-  $A = (x+3) \cdot x$
 $A = x^2 + 3x$

$A + 16 = (x+4) \cdot (x+1)$
 $A + 16 = x^2 + x + 4x + 4$
 $x^2 + 3x + 16 = x^2 + 5x + 4$
 $16 - 4 = x^2 + 5x + 3x - x^2$
 $12 = 2x$
 $x = 6$

$A = (x+3) \cdot x$
 $A = (6+3) \cdot 6$
 $A = 54$

Ampliada $= 54 + 16 = 70 \text{ m}^2$

05-



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

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

$$h = \frac{2\sqrt{3}}{2}$$

$$A = \frac{2\sqrt{3}}{2}$$

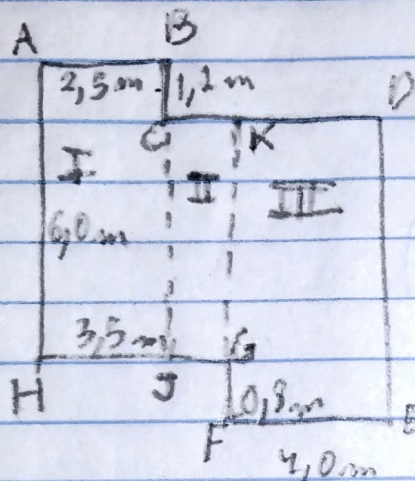
$$h = \sqrt{3}$$

$$A = \sqrt{3}$$

(B)

3 ângulos iguais, equiláteros

06-



Retângulos I, II, III

$$\overline{CJ} = 6,0 - 1,2 = 4,8 \text{ m}$$

$$\overline{CK} = 3,5 - 2,5 = 1 \text{ m}$$

$$\overline{DE} = 4,8 + 0,8 = 5,6 \text{ m}$$

(E)

$$AI = 1 \cdot 4,8 = 4,8 \text{ m}$$

$$AII = 6 \cdot 2,5 = 15 \text{ m} + = 42,2 \text{ m}^2$$

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

$$07- A = \frac{(B+b) \cdot h}{2}$$

$$A = b \cdot h$$

$$A = x \cdot \frac{24}{x}$$

(E)

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

$$A = \frac{24x}{x}$$

$$h = \frac{72}{3x} = \frac{24}{x} \text{ cm}$$

$$A = 24 \text{ cm}^2$$

$$08= A = \frac{D \cdot d}{2}$$

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

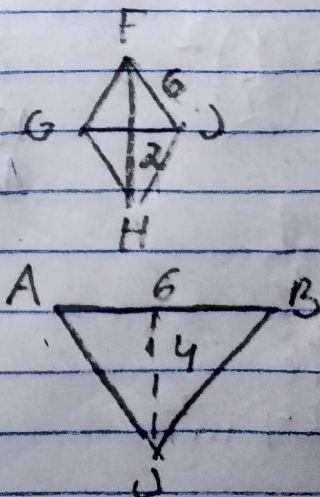
$$A = \frac{6 \cdot 2}{2}$$

$$A = \frac{6 \cdot 4}{2}$$

$$A = 6$$

$$A = 12$$

(D)



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

09- $A = b \cdot h$
 $48 = 4x \cdot 3x$
 $48 = 12x^2$
 $x = \sqrt{4}$
 $x = 2$

$AI = 8 \cdot 2 / 2$
 $AI = 8$

$AII = 6 \cdot 6 / 2$
 $AII = 18$

$A_{\text{Hachura}} = 48 - (18 + 8)$

(E)

$A_{\text{Hachura}} = 22$

10- $\left(\frac{AD}{AB}\right)^2 = \frac{1}{2}$

$AB = 8$

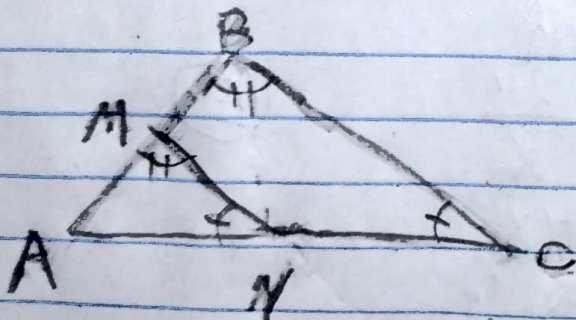
$\frac{AD^2}{64} = \frac{1}{2}$

(A)

$2AD^2 = 64$

$AD = \sqrt{32} = 4\sqrt{2}$

11-



$A = 96 \text{ m}^2$

$BC \parallel MN$

$\triangle ABC$ e $\triangle AMN$ são semelhantes

$\frac{AN}{AC} = \frac{AC}{2}$

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

$ABC - AMN = MNBC$

$MNBC = 96 - 24$

$MNBC = 72 \text{ m}^2$

$\frac{\frac{AC}{2}}{AC} = \frac{AC}{2AC} = \frac{1}{2}$

$\frac{x}{96} = \frac{1}{4}$

$4x = 96$

$x = 24 \text{ m}^2$