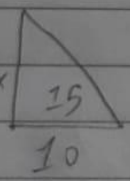
Tarefa básica

1. a) $\sqrt{400} = 20$ $\quad 6/20 = 0,3 \cdot 0,3 = 0,09\ m^2$

$\sqrt{36} = 6$

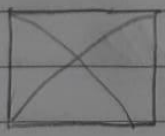
b) $0,3 + 0,3 + 0,3 + 0,3 = 1,2\ m$

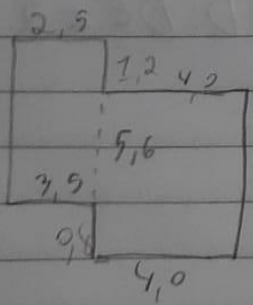
2. $2x^2 \rightarrow \sqrt{2}x$ (D)

3. 

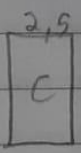
$\frac{10.x}{2} = \frac{15}{} \rightarrow 10x = 30$ $\quad x = 3$ (D)

4.

5.  $\frac{l^2\sqrt{3}}{4} \rightarrow \frac{2^2\sqrt{3}}{4} \rightarrow \frac{4\sqrt{3}}{4} \rightarrow \sqrt{3}$ (B)

6. 

$A = 5,6 \cdot 4,0 = 22,4\ m^2$



$C = 2,5 \cdot C$

$C = 15\ m^2$

$B = 4,8\ m^2$

$22,4 + 4,8 + 15$

$AT = 42,2\ m^2$ (E)

7.

8. $A = \frac{D \cdot d}{2}$ $A = \frac{6 \cdot 2}{2} = 6$ | $A = \frac{b \cdot b}{2} \rightarrow \frac{6 \cdot 9}{2} = 12$

$\frac{6}{12} = \frac{1}{2}$ (D)

9. $ab - \frac{1}{2} \cdot \frac{3a}{4} \cdot b - \frac{1}{2} \cdot a \cdot \frac{b}{3} = \frac{11ab}{24} = \frac{11 \cdot 48}{24} = 22$

(E)

10. $A(ABC) = \frac{b \cdot h}{2} = \frac{7 \cdot 6}{2} = \frac{42}{2} = 21$

$A(ADE) = \frac{21}{2} = 10,5$

$\frac{AD}{AB} = \frac{DE}{BC} = \frac{AD}{7} = \frac{DE}{6} = 7 \cdot DE = 6 \cdot AD =$

$DE = \frac{6AD}{7}$

$A = \frac{AD \cdot DE}{2} = 10,5 = \frac{AD \cdot DE}{2} = AD \cdot DE = 21$

$AD \cdot \frac{(6AD)}{7} = 21$

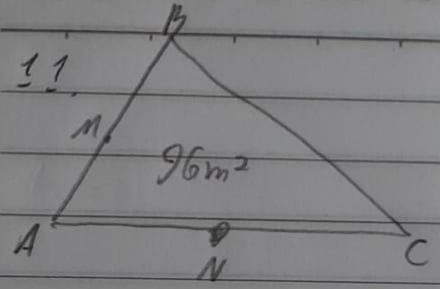
$6AD^2 = 21 \cdot 7$
$6AD^2 = 147$
$AD^2 = \frac{147}{6}$

$AD^2 = \frac{49}{2}$

$AD = \frac{\sqrt{49}}{\sqrt{2}}$

$AD = \frac{7}{\sqrt{2}}$

$AD = \frac{7\sqrt{2}}{2}$



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

$\frac{S_{\Delta AMN}}{S_{\Delta ABC}} = \frac{1}{4} \rightarrow S_{\Delta AMN} = 1/4\, S_{\Delta ABC}$

$S_{\Delta ABC} = x + S_{\Delta AMN} \rightarrow x = S_{\Delta ABC} - S_{\Delta AMN}$

$x = 96 - \frac{1}{4}(96) \Rightarrow x = 96 - 24 \rightarrow x = 72\ m^2$