Áreas de quadrado e triângulo

1) $400 \cdot x^2 = 36$

$x^2 = 36/400$

$x = 6/20$

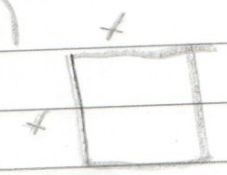
$x = 3/10$

$x = 0,3$

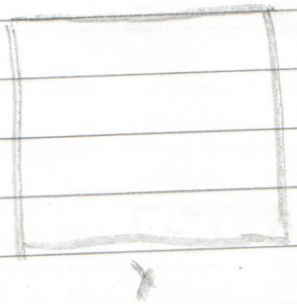
a) $0,3^2 = 0,09\ m^2$

b) $0,3 \cdot 4 = 1,2\ m$

2)



$A_1 = x^2$



$A_2 = y^2$

$A_2 = 2A_1$

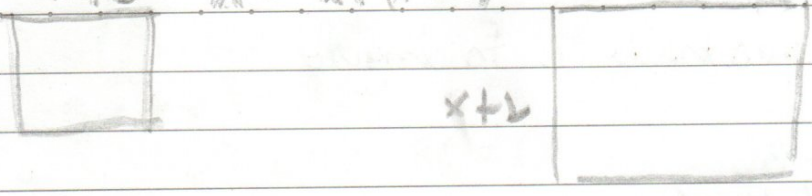
$y^2 = 2x^2$

$y = x\sqrt{2}$ (D)

3) $\frac{10 \cdot h}{2} = 15$

$10h = 30$

$h = 3$ (D)

4) 

$A = x(x+3) + 16$

$x^2 + 3x + 16$

$x(x+3) + 16 = (x+2)(x+4)$

$x^2 + 3x + 16 = x^2 + 4x + 4x + 8$

$3x - 5x = -16 + 8$

$-2x = -12$

$x = 6$

$6 \cdot 9 = 54$

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

5) $DE = CE = DC = 2$

$\frac{2^2 \sqrt{3}}{4} = \sqrt{3}$ (B)

6) $2,5 \cdot 1,2 = 3$ *

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

$4 + 3,5 = 7,5$

$7,5 \cdot 4,8 = 36$ *

$0,8 \cdot 4 = 3,2$ *

$42,2$ (E)

7) $AB = 2CD$ $\quad CD = b$ $\quad \frac{B+b}{2} \cdot h$

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

$3b \cdot h = 72$

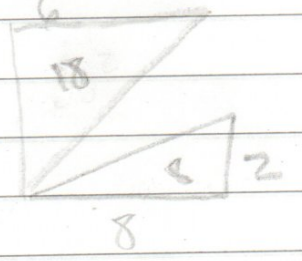
$b \cdot h = 24$ (E)

8) $\triangle$ $\quad AB = 6$ $\quad AE = 4$ $\quad \frac{6 \cdot 4}{2} = 12$

$\diamond$ $\quad EF = 1$ $\quad EJ = 3$ $\quad D = 6$ $\quad d = 2$ $\quad \frac{6 \cdot 2}{2} = 6$ $\quad \frac{6}{12}$

(D) $\frac{1}{2}$

9) 8 6



$48 - 18 - 8 = 22$ (E)

10) $\Delta ABC = 8 \cdot 6 / 2 = 24$

$\Delta ADE = 24/2 = 12$

$\frac{AD}{AB} = \frac{DE}{BC}$ $\quad\quad$ $\frac{AD}{8} \cdot \frac{DE}{6}$

$DE = \frac{6AD}{8}$

$AD \cdot DE = 24$

$AD \cdot \frac{6AD}{8} = 24 \Rightarrow 6AD^2 = 24 \cdot 8$

$6AD^2 = 192$

$AD^2 = 32$

$AD = \sqrt{32}$

$AD = 4\sqrt{2}$

32	2
16	2
8	2
4	2
2	2
1	

(A)