

Las caras ① y ⑦ son tienen el mismo área.
 Las caras ②, ③, ⑤ y ⑥ tienen el mismo área.
 Las caras ④ y ⑧ tienen el mismo área.

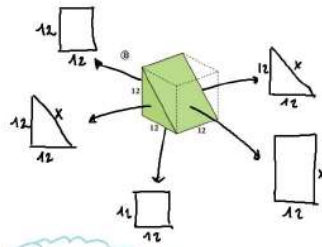
Así que nos llega con calcular:

$$12 \times 6 \rightarrow A = 12 \cdot 12 - 6 \cdot 6 = 144 - 36 = 108 \text{ cm}^2$$

$$12 \times 6 \rightarrow A = 12 \cdot 6 = 72 \text{ cm}^2$$

$$12 \times 12 \rightarrow A = 12 \cdot 12 = 144$$

$$A_{\text{total}} = A_{1+7} + A_{2+3+5+6} + A_{4+8} + A_{1+7} + A_{2+3+5+6} + A_{4+8} = 2 \cdot A_{1+7} + 4 \cdot A_{2+3+5+6} + 2 \cdot A_{4+8} = 2 \cdot 108 + 4 \cdot 72 + 2 \cdot 144 = 792 \text{ cm}^2$$



Calculamos x:

$$12 \times 12 \rightarrow x^2 = 12^2 + 12^2 = 288$$

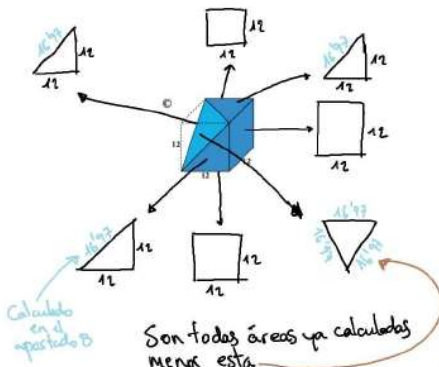
$$x = \sqrt{288} = 16.97 \text{ cm}$$

$$12 \times 12 \rightarrow A = 12 \cdot 12 = 144 \text{ cm}^2$$

$$12 \times 12 \rightarrow A = \frac{12 \cdot 12}{2} = 72 \text{ cm}^2$$

$$12 \times 16.97 \rightarrow A = 12 \cdot 16.97 = 203.64 \text{ cm}^2$$

$$A_{\text{total}} = 2 \cdot 144 + 2 \cdot 72 + 203.64 = 635.64 \text{ cm}^2$$



Son todas áreas ya calculadas menos esta.

La giro para verla mejor

Para calcular su altura:

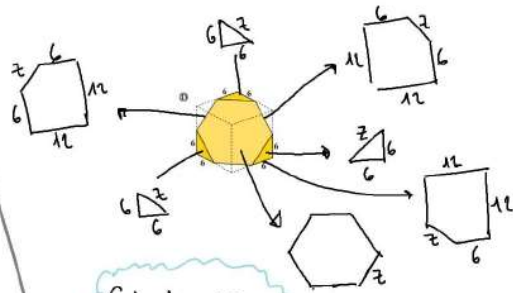
$$h^2 + 8^2 = 16^2$$

$$h^2 = 215/9$$

$$h = 14.69 \text{ cm}$$

$$A_{\text{area}} = \frac{b \cdot h}{2} = \frac{16 \cdot 14.69}{2} = 124.64 \text{ cm}^2$$

$$A_{\text{total}} = 3 \cdot 144 + 3 \cdot 72 + 124.64 = 772.64 \text{ cm}^2$$



Calculamos z:

$$z^2 = 6^2 + 6^2$$

$$z^2 = 72$$

$$z = 8.49 \text{ cm}$$

$$6 \times 6 \rightarrow A = \frac{6 \cdot 6}{2} = 18 \text{ cm}^2$$

$$12 \times 12 = \square - \triangle \rightarrow A = 144 - 18 = 126 \text{ cm}^2$$

$$A = \frac{P \cdot ap}{2} = \frac{50.94 \cdot 7.36}{2} = 187.46 \text{ cm}^2$$

$$ap^2 + 4.21^2 = 8.49^2$$

$$ap = 7.36$$

$$A_{\text{total}} = 3 \cdot 18 + 3 \cdot 126 + 187.46 = 619.46 \text{ cm}^2$$