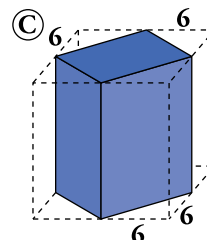
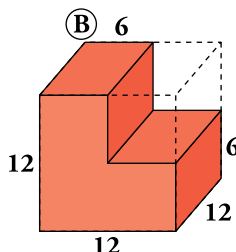
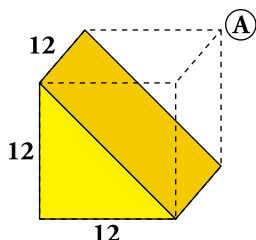


6 Volumen de los cuerpos geométricos

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1. Calcula el volumen de estos prismas, obtenidos cortando un cubo de 12 cm de arista:

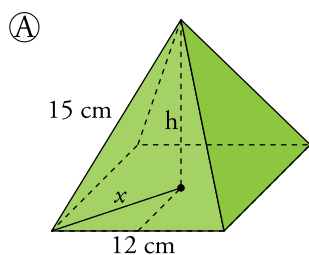
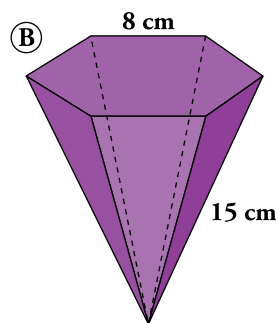
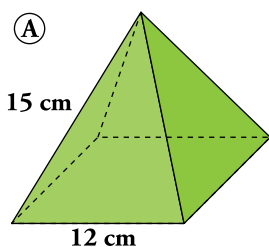


$$\textcircled{A} V = \frac{12^3}{2} = 864 \text{ cm}^3$$

$$\textcircled{B} V = \frac{3}{4} \cdot 12^3 = 1\,296 \text{ cm}^3$$

$$\textcircled{C} V = \frac{12^3}{2} = 864 \text{ cm}^3$$

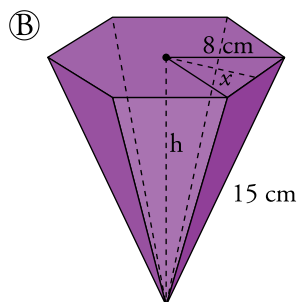
2. Calcula el volumen de estas pirámides cuyas bases son polígonos regulares:



$$x = \sqrt{6^2 + 6^2} \approx 8,49 \text{ cm}$$

$$h = \sqrt{15^2 - 8,46^2} \approx 12,37 \text{ cm}$$

$$V = \frac{1}{3} \cdot 12^2 \cdot 12,37 \approx 593,76 \text{ cm}^3$$



$$h = \sqrt{15^2 - 8^2} \approx 12,69 \text{ cm}$$

$$x = \sqrt{8^2 - 4^2} \approx 6,93 \text{ cm}$$

$$V = \frac{1}{3} \cdot \frac{8 \cdot 6,93}{2} \cdot 6 \cdot 12,69 \approx 703,53 \text{ cm}^3$$