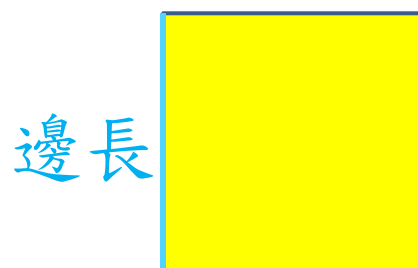
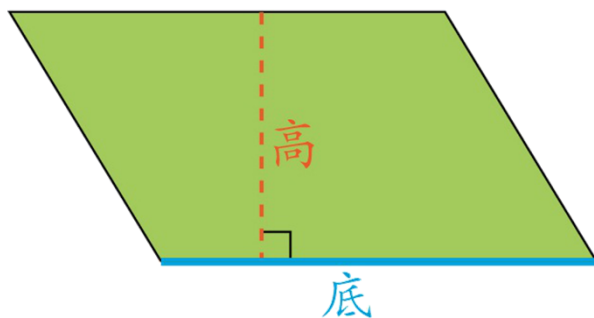




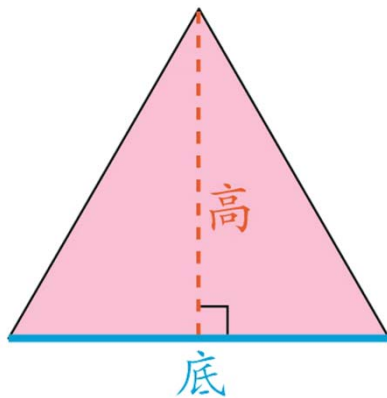
$$\text{長方形的面積} \\ = \text{長} \times \text{闊}$$



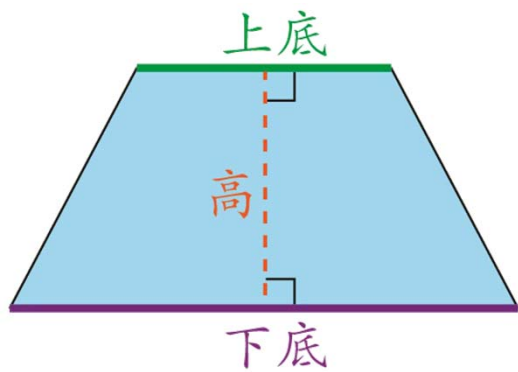
$$\text{正方形的面積} \\ = \text{邊長} \times \text{邊長}$$



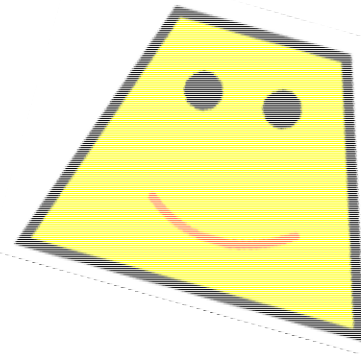
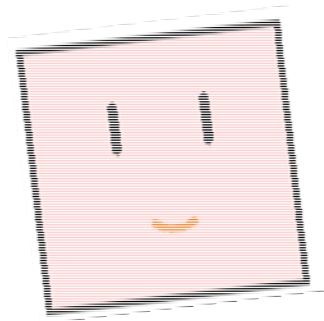
$$\text{平行四邊形的面積} \\ = \text{底} \times \text{高}$$



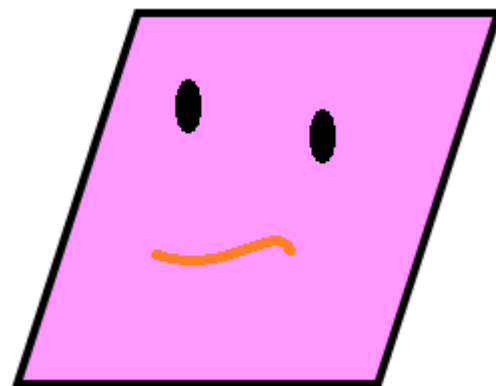
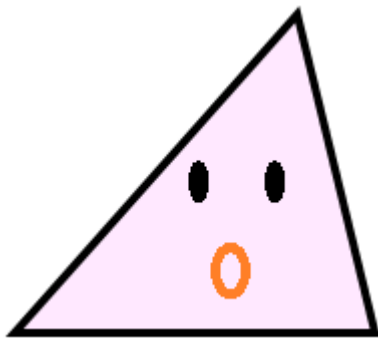
$$\begin{aligned} & \text{三角形的面積} \\ &= \frac{\text{底} \times \text{高}}{2} \end{aligned}$$



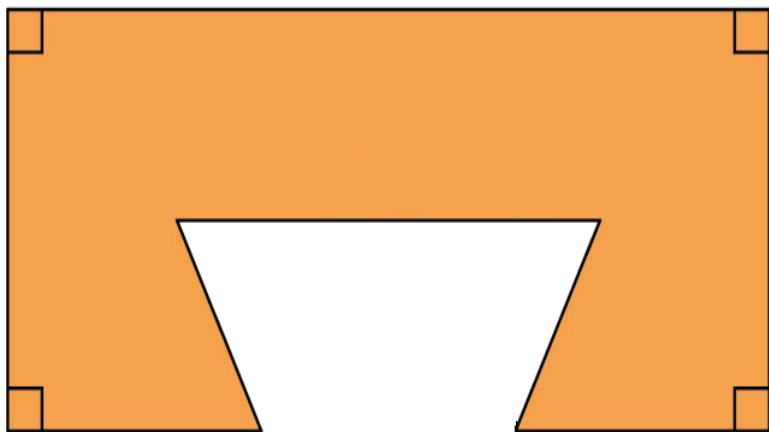
$$\begin{aligned} & \text{梯形的面積} \\ &= \frac{(\text{上底} + \text{下底}) \times \text{高}}{2} \end{aligned}$$



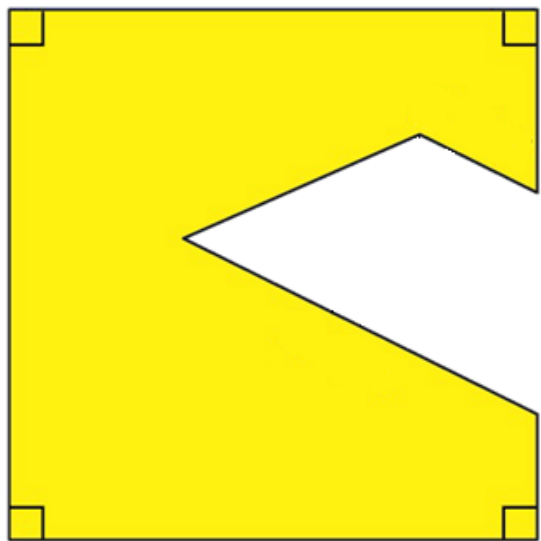
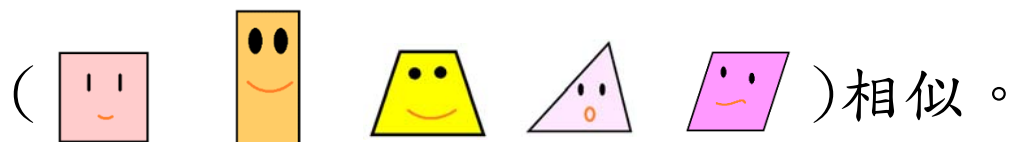
試找出下列的多邊形和哪個
基本圖形相似？



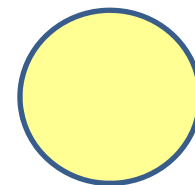
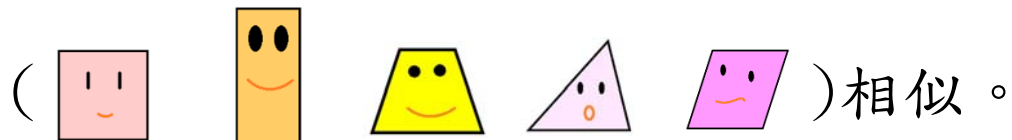
圈出多邊形和哪個基本圖形相似，然後補畫成基本圖形。



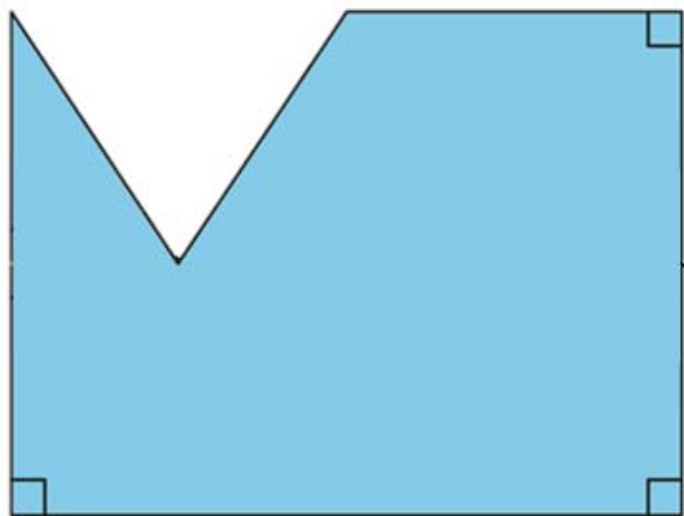
這個多邊形和



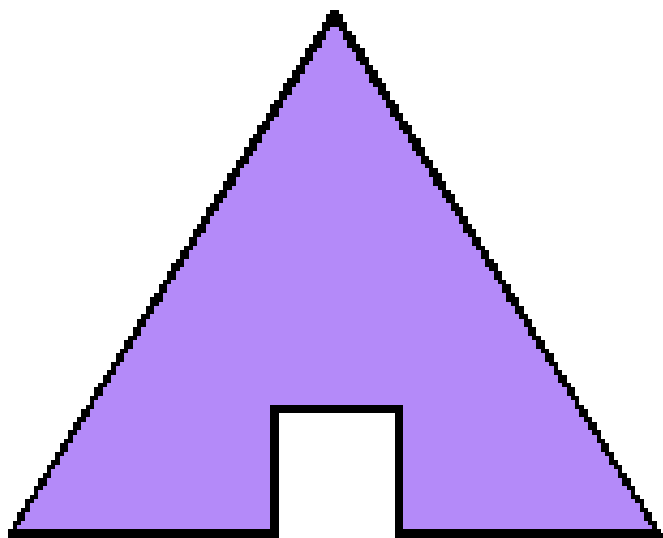
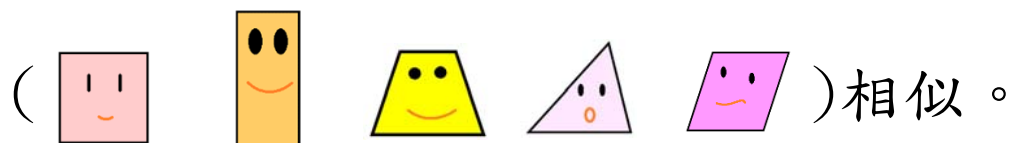
這個多邊形和



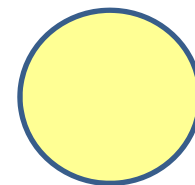
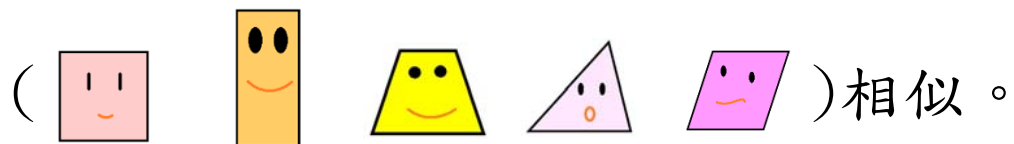
圈出多邊形和哪個基本圖形相似，然後補畫成基本圖形。

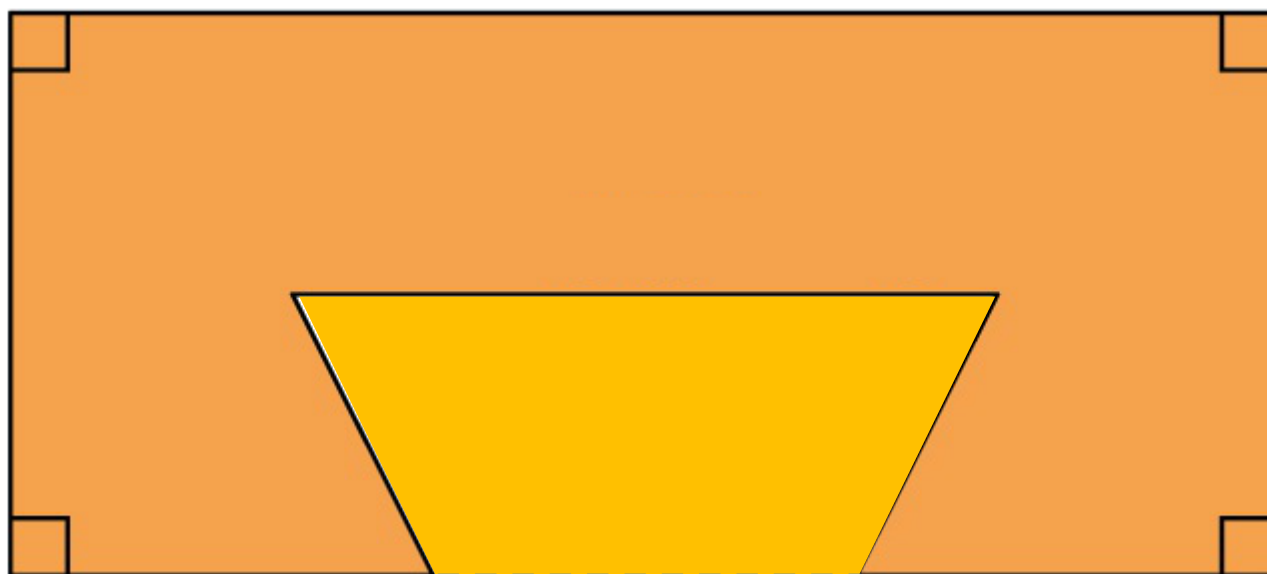


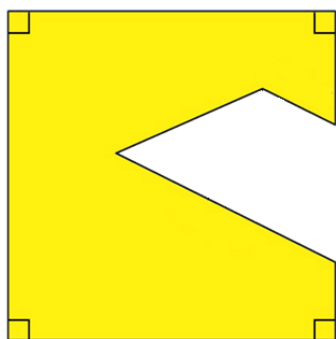
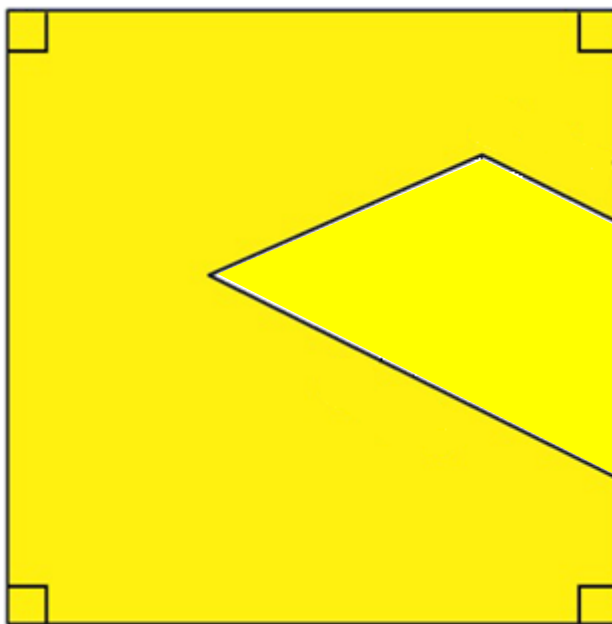
這個多邊形和



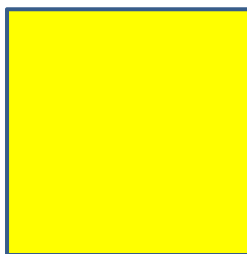
這個多邊形和





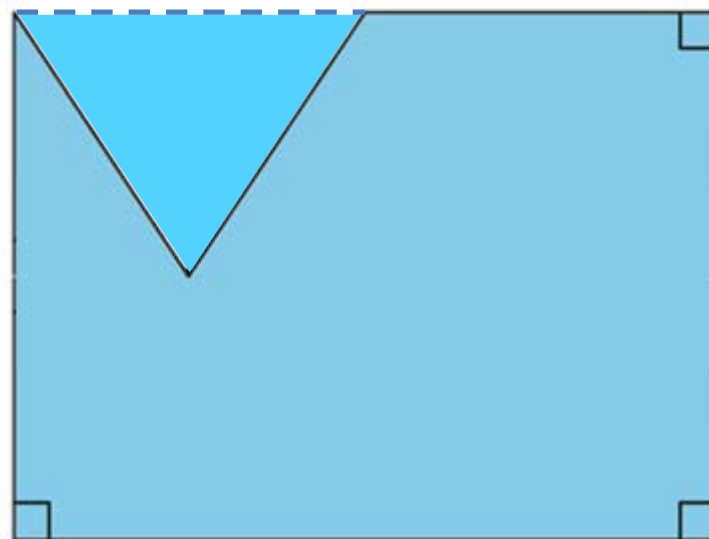


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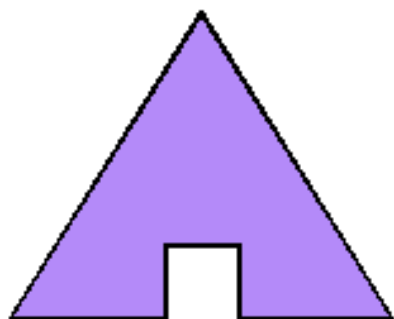
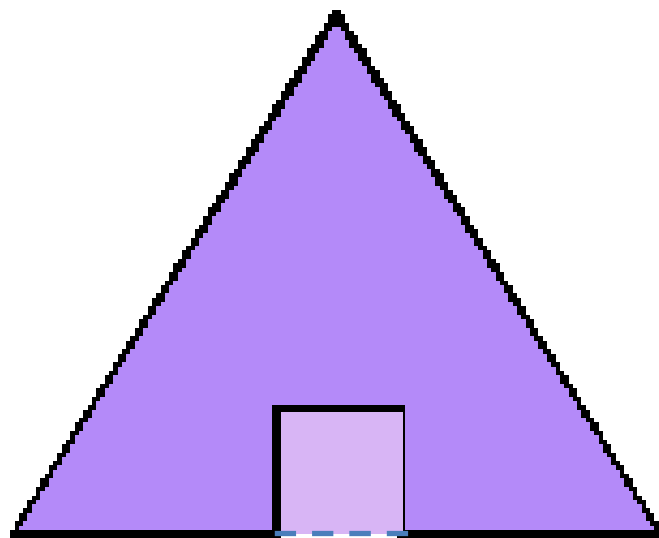




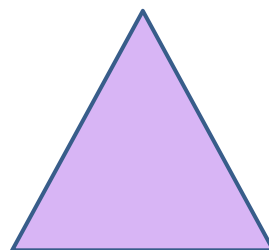
$$\text{Square with triangle removed} = \text{Full square} - \text{Triangle}$$
A diagram showing the area of the square with the triangle removed, equal to the area of a full square minus the area of the triangle.



把圖形填補成一個新圖形，然後計算新圖形的面積，再減去補上的圖形面積，這方法稱為**填補法**。



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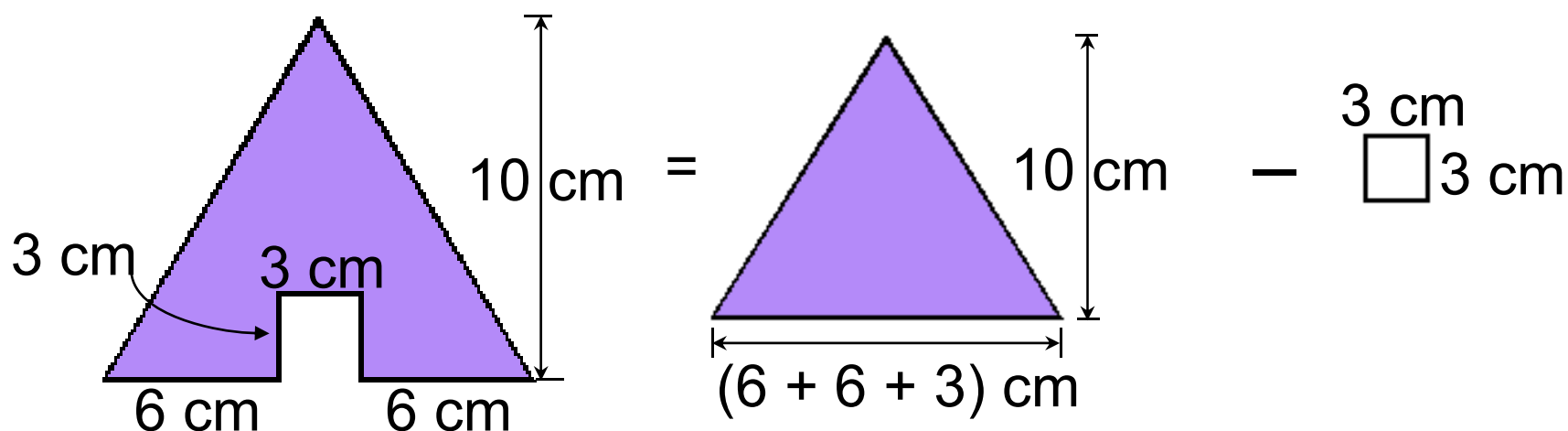
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計算多邊形面積

- 1) 細心觀察圖形；
- 2) 決定要用的方法；
- 3) 找出合適的資料以計算基本圖形的面積；
- 4) 列算式；
- 5) 小心計算；
- 6) 寫上正確的單位。

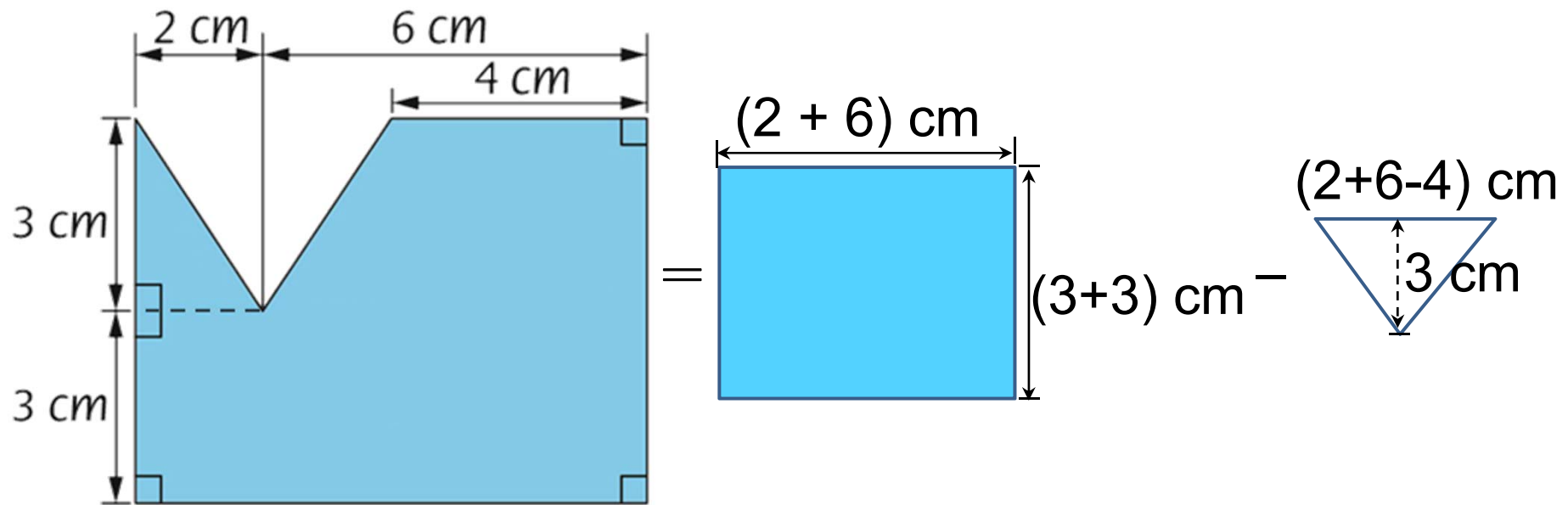




$$\begin{aligned}\text{三角形的面積} &= \underline{(6+6+3) \times 10 \div 2} \\ &= \underline{75 \text{ (cm}^2\text{)}}\end{aligned}$$

$$\begin{aligned}\text{正方形的面積} &= \underline{3 \times 3} \\ &= \underline{9 \text{ (cm}^2\text{)}}\end{aligned}$$

$$\begin{aligned}\text{多邊形的面積} &= \underline{75 - 9} \\ &= \underline{66 \text{ (cm}^2\text{)}}\end{aligned}$$



$$\text{長方形的面積} = (2+6) \times (3+3)$$

$$= 48 \text{ (cm}^2\text{)}$$

$$\text{三角形的面積} = (2+6-4) \times 3 \div 2$$

$$= 6 \text{ (cm}^2\text{)}$$

$$\text{多邊形的面積} = 48 - 6$$

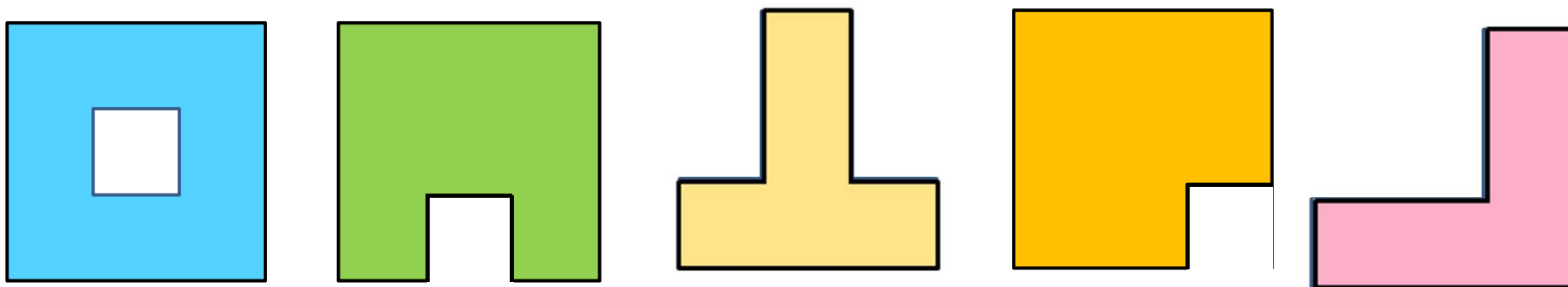
$$= 42 \text{ (cm}^2\text{)}$$





利用填補法計算多邊形的面積

- 2-3人一組，一人負責設計多邊形的圖形。
- 另一人負責計算多邊形的面積。



不用計算，你能找出以上
哪些拼砌出來的圖形的面積
是一樣的？

熊貓小教室

http://esvr.plkcjy.edu.hk/polygon/shape/AO_shape.html

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