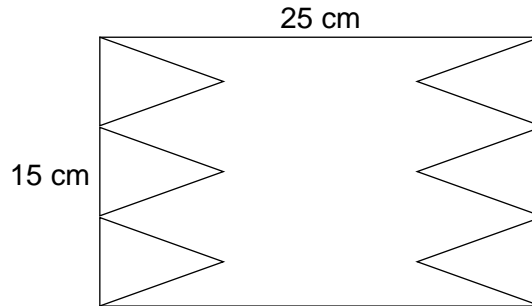


A Maths Question, PSLE 2020

Anna has a rectangular piece of paper, 25 cm long and 15 cm wide. She cut 6 identical triangles from that paper as shown below. After cutting, the area of resulting shape is 279 cm<sup>2</sup>. The perimeter of the resulting paper is 54 cm longer than the original paper.

(a) Find the area of each triangle.  
 (b) Find the perimeter of each triangle.

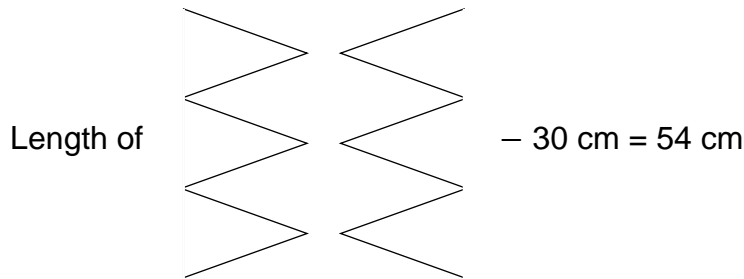


<< Area & Perimeter >>

<Writing>

- (a)  $25 \times 15 = 375 \text{ (cm}^2\text{)}$  → area of the rectangle  
 $375 - 279 = 96 \text{ (cm}^2\text{)}$  → area of the 6 rectangles  
 $96 \div 6 = 16 \text{ (cm}^2\text{)}$  → area of each rectangle

(b) Which part is 54 cm?



- $54 + 2 \times 15 = 84 \text{ (cm)}$  → 12 sides of the triangles above  
 $84 \div 12 = 7 \text{ (cm)}$  → equal side of each triangle  
 $15 \div 3 = 5 \text{ (cm)}$  → base of each triangle  
 $5 + 2 \times 7 = 19 \text{ (cm)}$  → perimeter of each triangle

Answer (a) 16 cm<sup>2</sup> (b) 19 cm