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Subject :- Mathematics

Week :- 3 (1st Term)

Grade :- 8

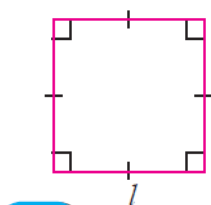
Prepared by- Zonal Education Office
Embilipitiya

(Learning Time 3 Hours and 20 Minutes)

Perimeter

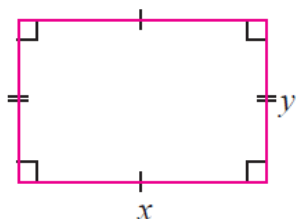
2.1 What is perimeter?

- The sum of the lengths of all sides of a closed rectilinear plane figure is called it's perimeter.
- Let's us recall some formulae you have learned in grade 6 and 7.
- If the perimeter of a square of side length l units is p units, then



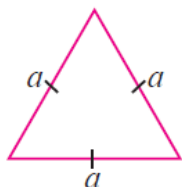
$$p = l + l + l + l$$
$$p = 4l$$

- If the perimeter of a rectangle of length x units and breadth y units is p units, then



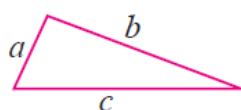
$$p = x + y + x + y$$
$$p = 2x + 2y$$

- If the perimeter of an equilateral triangle of side length a units is p units, then



$$p = a + a + a$$
$$p = 3a$$

- If the perimeter of a triangle with side lengths a , b and c units is p units, then

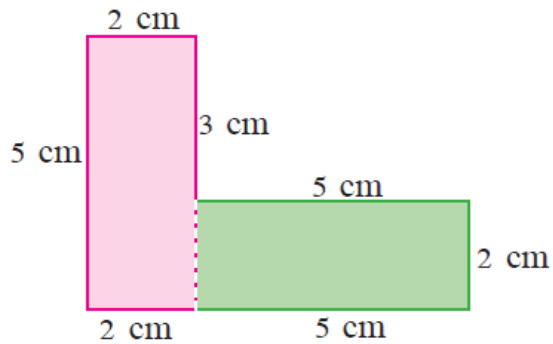


$$p = a + b + c$$

- Do the review exercise in the text book.

2.2 Perimeter of a composite plane figure

- A plane figure which is composed of several plane figures is called a composite plane figure.
- When calculating the perimeter of a composite rectilinear plane figure, only the lengths of all the straight line segments by which the figure is bounded should be added.



$$\begin{aligned}\text{The perimeter of the figure} &= 5 \text{ cm} + 2 \text{ cm} + 3 \text{ cm} + 5 \text{ cm} + 2 \text{ cm} + 5 \text{ cm} + 2 \text{ cm} \\ &= 24 \text{ cm}\end{aligned}$$

- Do the exercise 2.1 in the text book.