Unit 16 – Length (3)

➢ Perimeter

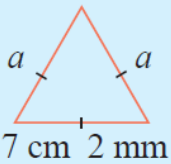
- The length around a closed plane figure is called its perimeter.

The length of an equilateral triangle is 7 cm 2 mm. Find its perimeter.

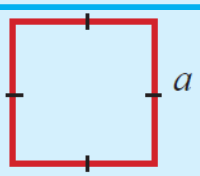
Perimeter of the triangle $= 3a$

$= 3 \times (7 \text{ cm } 2 \text{ mm})$

$= 21 \text{ cm } 6 \text{ mm}$



The perimeter of a square is 25 cm 6 mm. Find the length of a side.



If the length of a side is a units, then

the perimeter of the square $= 4a = 25 \text{ cm } 6 \text{ mm}$

$\therefore$ the length of a side $= a = 25 \text{ cm } 6 \text{ mm} \div 4$

The length of a side is 6 cm 4 mm.

$$
\begin{array}{r|l}
 & 6 \text{ cm } 4 \text{ mm} \\
\hline
4 & 25 \text{ cm } 6 \text{ mm} \\
 & 24 \\
\hline
 & 1 \rightarrow 10 \text{ mm} \\
 & 16 \text{ mm} \\
\hline
 & 16 \text{ mm} \\
\hline
 & 00
\end{array}
$$

The length of a rectangle is 3 cm greater than its width. If the width is 5 cm, then find the perimeter.

The length of the rectangle = width + 3 cm

$= 5 \text{ cm} + 3 \text{ cm} = 8 \text{ cm}$

l = length = width + 3 cm

$b = 5$ cm

The perimeter of the rectangle $= 2l + 2b = 2 \times 8 + 2 \times 5 \text{ cm}$

$= 16 + 10 \text{ cm}$

$= 26 \text{ cm}$

✓ Do all the exercises in your text book 16.5