Length:

Length is the measurement of distance of an object from its first point to last point.

There are many length measuring units. They are km, m, cm and mm etc. We can convert them into the following way:

- **1 km = 1000 m**

    1 m = 100 cm

        1 cm = 10 mm

- **1 mm = 0.1 cm**

    1 cm = 0.01 m

        1 m = 0.001 km

Converting units:

Length of a Thermometer is 14 cm 3 mm.

Express in cm:

We know, 1 mm = 0.1 cm

$$\therefore 3 \text{ mm} = 0.1 \times 3 \text{ cm}$$

$$= 0.3 \text{ cm}$$

Therefore, 14 cm 3 mm = 14 cm + 0.3 cm

$$= 14.3 \text{ cm}$$

Express in mm:

We know, 1 cm = 10 mm

$$\therefore 14 \text{ cm} = 10 \times 14 \text{ mm}$$

$$= 140 \text{ mm}$$
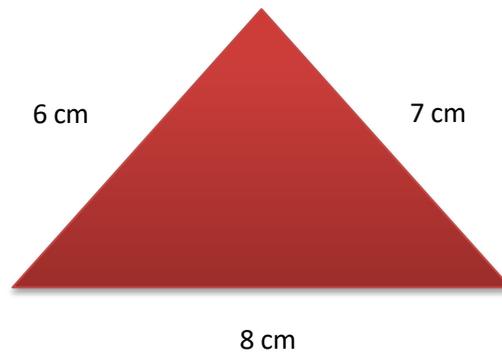
Therefore, 14 cm 3 mm = 140 mm + 3 mm

$$= 143 \text{ mm}$$

Note: Although Decimals chapter is not in 2nd term syllabus, the Basic of "Addition and Multiplication of Decimals" will be explained in the Video next date.

For now you can try it from the textbook to understand.

Perimeter:

Perimeter is the sum of the length of all sides of a figure (Triangle, Rectangle, Square etc).

Finding Perimeter:

(i)

Perimeter of this Triangle = 6 + 7 + 8 cm

= 21 cm

(ii)

We know, the opposite sides of a rectangle have the same length.

So the perimeter of this rectangle = 10×2 + 6×2 cm

= 20 + 12 cm

= 32 cm