



**Sabaragamuwa Provincial Department of  
Education – Weekly School**

Subject :- Mathematics

Week- 11 (2<sup>nd</sup> term)

Grade :- 8

Setting :- Embilipitiya Education Zone

( Learning Time :- 2 hours)

## Area

### 20.3 The area of composite plane figures.

- Recall what you learned about area in grade 7.
- The area over which a surface is spread is called the area of that surface.
- The area of a rectangle with units of length  $l$  and units of width  $b$ , taken as square units  $A$ , is  $A = lb$ .
- The area of a square shaped lamina with side length units  $a$  as square units  $A$  is  $A = a^2$ .
- The perpendicular drawn from one vertex of a triangle to its intersection is called the height, and that intersection is called the base.
- Area of a triangle =  $(1/2) * \text{base} * \text{height}$
- Divide the composite plane figure into plane figures of which the area can be easily found. Then find the area of each of these plane figures and obtain the sum.
- Study page 56 and complete the exercise 20.2.

### 20.4 The surface area of a cube and a cuboid

- The surface area of a cuboid where the length is 'a' units, breadth is  $b$  units and the height is  $h$  units is  $2ab + 2ah + 2bh$  or  $2(ab + ah + bh)$ .
- The surface area of a cube where a side is 'a' units is  $6a^2$ .
- Study pages 58 & 59 complete the exercise 20.3.