

**SUBJECT: BASIC TECHNOLOGY.**

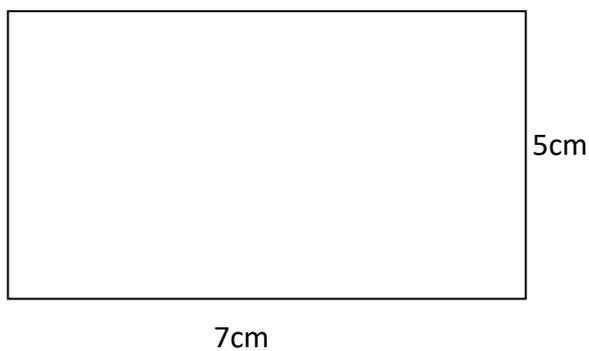
**CLASS: JSS2.**

**TOPIC: PLANE FIGURES**

### PLANE FIGURE

A plane figure is simply one drawn in two-dimensions; ie, showing length and breath. The idea of area may be explained as the amount of space (square units) enclosed within the boundaries of a figure.

To measure the amount of space, we determine the number of square units.



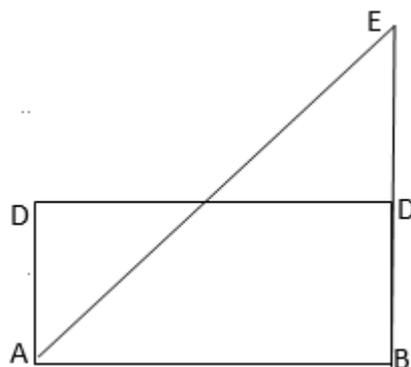
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	32	33	34	35

Area = 35cm<sup>2</sup>

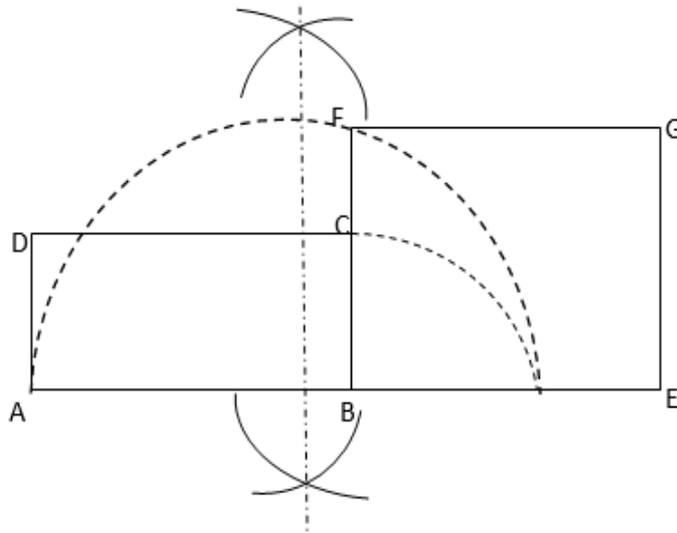
To construct a triangle of equal area to a given rectangle.

Procedure;

- i. Construct the given rectangle ABCD
- ii. Double BC to CE
- iii. Then, join E to A.
- iv. Rectangle ABCD is equal in area to triangle ABE



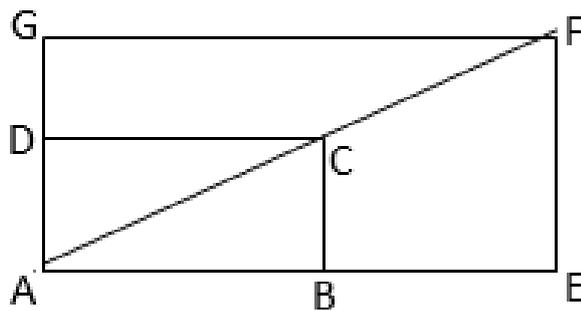
To construct a square equal in area to a given rectangle.



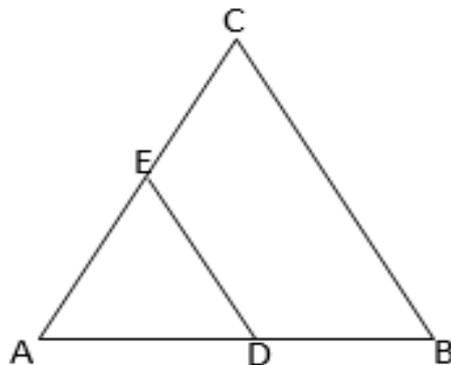
Rectangle ABCD is equal in area to square BEGF

### ENLARGEMENT AND REDUCTION

To enlarge a given rectangle by ratio 4.3



To reduce a given equilateral triangle by ratio 1.2



### ASSIGNMENT:

1. What is a plane figure.
2. Through construct, convert a given triangle to a square of equal area.