



Musaeus College

Study Pack 2 / Week 2 / March 2020

Grade : 7

Subject : Mathematics

Medium : English

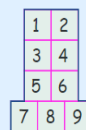
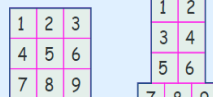
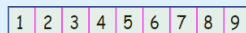
Lesson 1: 14) AREA

Recap

Area is a measure of how much space there is on a flat surface.

The **area** of a flat, or plane figure is the number of unit squares that can be contained within it

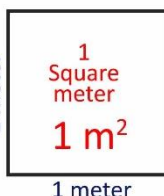
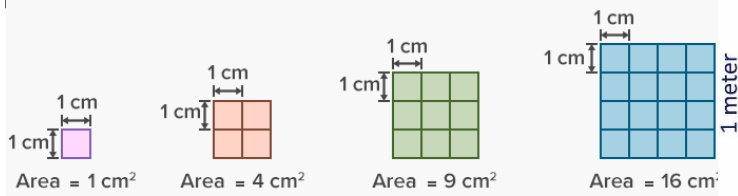
These shapes all have the same area of 9:



Do the review exercise given in page 53 to revise what you have learnt in Grade 6.

Lesson 2: More on units to measure areas:

The area of a square shaped lamina of side length 1cm is one square centimeter (denoted by 1cm^2).

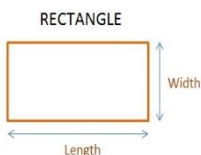


The area of a square shaped lamina of side length 1m is one square meter (denoted by 1m^2).

Complete the Activity 2 in page 55/56.

Lesson 3: Complete Exercise 14.1

Formulae for the area of a rectangle



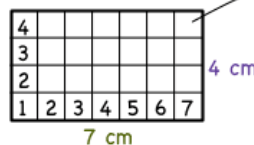
Area of rectangle = Length X Width

length= a , width= b

Area; $A = a \times b$

Area of a Rectangle

$$A = L \cdot W$$



$$A = 28 \text{ cm}^2$$

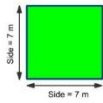
$$A = 7 \cdot 4 = 28 \text{ cm}^2$$

Formulae for the area of a square

Area of Square

The area of a Square equals any of its two sides multiplied together.

$$A = s \times s$$



$$\begin{aligned} A &= s \times s \\ A &= 7 \times 7 \\ A &= 49 \text{ cm}^2 \end{aligned}$$



Length of a side = s

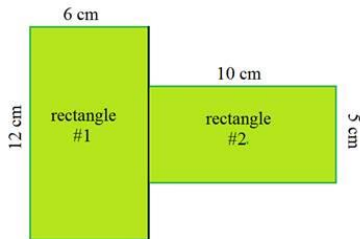
Area; $A = s^2$

$$A = s^2$$

Complete the exercise 14.2. Question 1&2 are compulsory.

Lesson 4: Areas of a composite plane figures:

Composite plane figures that can be divided into several rectangles as shown below.



$$\#1 \text{ Area of the rectangle } 1 = 12 \times 6 = 72 \text{ cm}^2$$

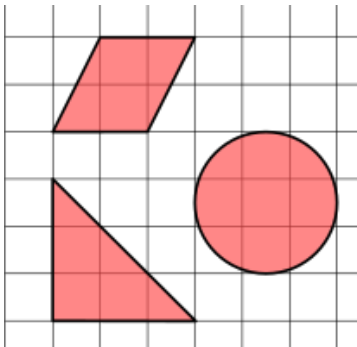
$$\#2 \text{ Area of the rectangle } 2 = 10 \times 5 = 50 \text{ cm}^2$$

$$\text{Total area} = 72 + 50 = 122 \text{ cm}^2$$

Complete the exercise 14.3

Question 1&2 compulsory, rest of it are optional.

Lesson 5: Estimation of the areas of plane figures



- Area of the Rhombus = 4 units²
- Area of the triangle = 4.5 units²
- Area of the circle = 7 units²

Complete the exercise 14.4

Prepared by: Mrs Anusha Kalingamudal