**Oxfords E-Lesson 1, T3**

Grade: JSS1

Subject: Mathematics

Topic: Perimeters of plane shapes

**Salient Points**

**Measurement of Length and Units**

**Question 1**

1. Express 1.003m in centimetres (cm)
2. Express 6.52m in kilometres (km)

**Solution:**

1. Im = 100cm

1.003m = (1.003 x 100)cm

= 100.3cm

.1.003m = 100.3cm

1. 1000m = 1km

6.52m = (6.52/1000)km

= 0.00652km

.6.52m = 0.00652km

**Perimeters of Plane Surface by Measurement**

The perimeter of any shape is the distance around the edge of the shape.

There are two types of shape, the irregular shape and the regular shape.

**Perimeters of Irregular Shapes**

Irregular shapes are shapes with no definite shape. In order to calculate the perimeter of an irregular shape, it is more convenient to carefully place a string around the edge of the shape and afterwards, measure the length of the string.

**Perimeters of Regular Shapes**

Regular shapes have distinct edges with straight lines or well defined curves. In order to calculate the perimeter of a regular shape, either to place a string around the edges of the shape and to measure the length of the string thereafter or to use the formulae to calculate the perimeter.

**Perimeter of a Square shape**

A square is a figure whose length and breadth are equal.

Perimeter of a square = 4L, where L is the length of a side

**Question 2**

Calculate the perimeter of a square whose sides are 8½m

**Solution**

Perimeter of square = 4L

= 4 x 8½

= 4 x17/2

= z x 17

= 34m Ans.

**JSS1 Maths1 contd.**

**Perimeter of a Rectangle**

A rectangle is a closed four sides figure in which the opposite sides are equal.

Perimeter of rectangle = 2(L + b)

**Question 3**

What is the perimeter of a rectangle whose length is 1.35m and breadth 1.5m?

**Solution**

Perimeter of rectangle = 2(L + b)

Where L is the length = 1.35m and

b is the breadth = 1.5m

perimeter of the rectangle = 2(135 + 1.5)

= 2(2.85)

= 5.70m Ans

**Assignment**

1. Calculate the perimeter of a square board whose sides are 12cm
2. The length of a rectangular field is 16m. if the perimeter of the field is 72m, what is the breadth of the field?
3. Express 144m in centimeter (cm)

**Additional Studies**

Study on the perimeter of Parallelogram, Triangle, Trapezium and Circle