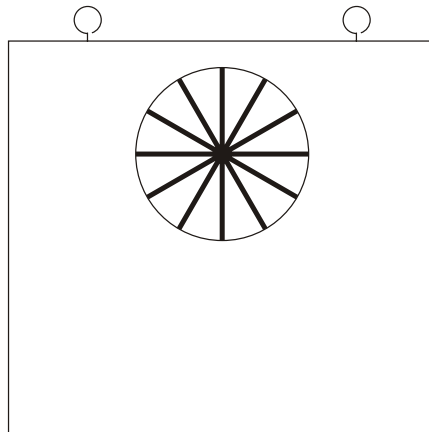


**To do and observe :**

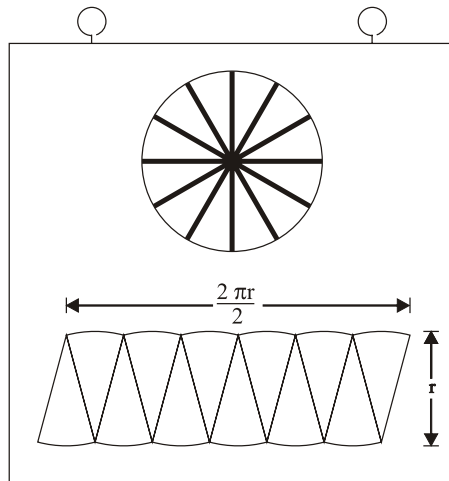
Step 1 :

Take the given circle and fix it on base using pins as shown below.



Step 2 :

Now arrange the 12 segments below the circle as shown below  
We get a figure parallelogram.



$$\begin{aligned} &\text{Therefore area of circle} \\ &\approx \text{Area of parallelogram} \\ &\approx \text{length} \times \text{breadth} \\ &\approx \frac{2\pi r}{2} \times r \\ &\approx \pi r^2 \end{aligned}$$

**Result :**

**Area of a circle is  $\pi r^2$  where 'r' is the radius of the circle**



**TARANG SCIENTIFIC INSTRUMENTS**

**DHARWAD**

Phone : 0836-2775204

Cell : 94482 31960

www.tarangscientificinstruments.com

## AREA OF A CIRCLE

To show that area of a circle of radius 'r' is  $\pi r^2$

**Assembly :**

Consists of a circle of radius 98 mm cut out of a 6 mm Eva Rubber. 12 equal segments of radius 98 mm made out of plastic. A base of 355 mm x 300 mm made out of 12 mm Eva Rubber and pins are part of the kit.

