

## Lesson # 33 ~ Area of a Disc

The formula for calculating the area of a disc from the radius is:

$$A = \pi r^2$$

Find the area, if the radius is 4cm.

\*\*\*\*\* don't forget BEDMAS

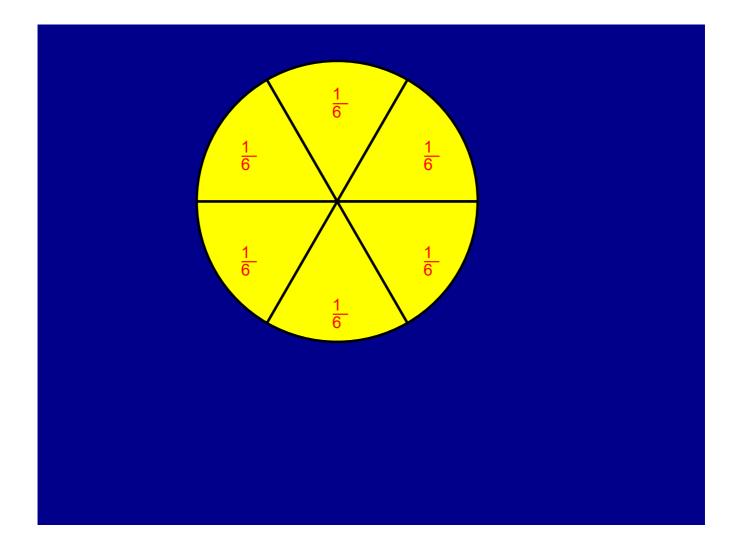
A = TTA A = TTA Exponent First A = TTB  $A = 50.27cm^{2}$ Find the area, if the diameter is 7.2cm.

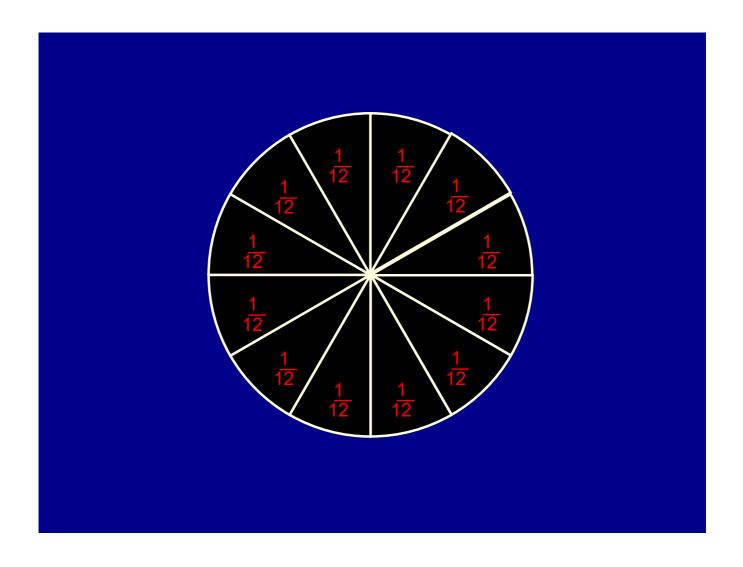
$$R = 3.6$$

In order to find the radius from the area do .......

Find the radius if the area is 113.04cm<sup>2</sup>.

 $C = \int_{0.05}^{36}$ 







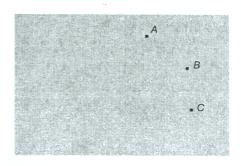


## **Ripples in the Water!**

- 1. Use your compasses to **construct** a circle with:
  - a) a radius of 2 cm; b) a diameter of 5 cm;

c) a circumference of approximately 6.28 cm; d) an area of approximately 28 cm<sup>2</sup>.

- 2. Three cottages, *A,B* and *C,* are built at a summer camp.
  - a) Find the exact location where a lamppost must be installed to give the same intensity of light on all three cottages.
  - b) Give the geometric statement used to solve this problem.
- Use your ruler to find the necessary measurements and calculate (showing the steps of your work):
  - a) the perimeter of the circle at right;
  - b) the area of the disc.





Area of Circle.asf