

AREA OF CIRCLES

Name: _____ Class: _____ Due Date: _____

Family Member Signature: _____

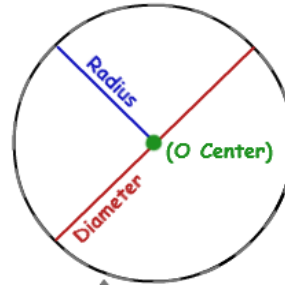
Objective:

To be able to calculate radius, diameter, and area of a circle.

Necessary Information:

Calculators allowed.

$$r = \frac{1}{2}d \quad d = 2 \times r \quad A = 3 \times r \times r$$



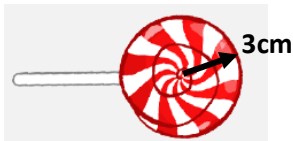
Practice Section:

1) Fill in the missing information.

a) If diameter is 25m, then radius is _____

b) If radius is 1.5ft, then diameter is _____

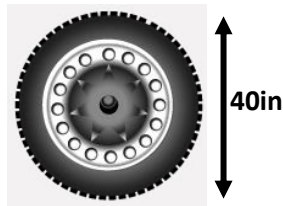
2) I measured the distance across a circle (through the center, from one side to the other) and found it to be 2.4m. What is the area of this circle?



r = _____

d = _____

A = _____



r = _____

d = _____

A = _____

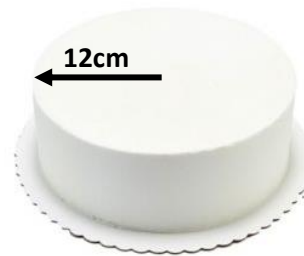


r = _____

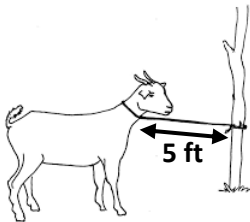
d = _____

A = _____

- 3) I am frosting the top of a circular cake that has a radius of 12cm. How much area of the cake will I need to frost?



- 4) Jason's goat is tethered to a tree with a rope that measures 5 feet. How much area of grass does the goat have to munch on?



- 5) You need to buy a cover for the pool. What area will the cover need to be in order to lay on top of the pool?



In Your Real World:

With a family member at home, find a circular object in the house. Sketch the object, label radius or diameter, and determine the following.

$r =$ _____

$d =$ _____

$A =$ _____