

# CIRCUMFERENCE OF A CIRCLE

## Subject

Mathematics

## Prepared By

[Instructor Name]

## Grade Level

4

## Overview

This lesson plan covers teaching content for;

1. Circumference of a circle of given radius.
2. Circumference of a circle with a given diameter

## Objectives

Students should be able to;

1. Find the circumference of a circle when the radius is given.
2. Establish the relationship between  $c$  and  $\pi d$  and find the circumference.

## Activity Starter/Instruction

1. Using a pair of compasses, let the pupils construct 3 circles, one small, one medium and one large.
2. Help pupils who find this difficult.
3. Pupils should measure the circumference by going through the circle with a piece of string.

## Guided Practice

### Day 2/ Lesson 2: 15 Mins

1. Explain to the pupils that the circumference can be calculated if the radius or diameter is given.

## Teacher Guide

### Day 1/ Lesson 1: 15 Mins

1. Discuss the definitions of circumference, radius and diameter.
2. Ask the pupils to write the definitions in their notebooks.
3. Show them radius, diameter and circumference on the circles they constructed.
4. Explain the relationship between the three parameters.

## Guided Practice

### Day 3/ Lesson 3: 15 Mins

1. Remind them that the diameter is the distance across the circle, passing through the center.

## Materials Required

- Pair of compasses
- Pencil
- String
- Ruler
- A4 blank paper
- Calculator

## Additional Resources

- <https://www.scribd.com/document/135896354/Circumference-of-a-circle-lesson-plan>
- [http://www.teach-nology.com/teachers/lesson\\_plans/math/68findcircumference-area-circle-lesson-plan-7th-grade/](http://www.teach-nology.com/teachers/lesson_plans/math/68findcircumference-area-circle-lesson-plan-7th-grade/)
- <https://www.mathwarehouse.com/topic/understanding-circumference-area-circle-lesson-plan-7th-grade/>
- <https://m.wikihow.com/Calculate-the-Circumference-of-a-Circle>

## Additional Notes

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2. Remind them that radius is the distance from any point on the circle to the center.
  3. Tell them that Pi is the ratio and that Pi can be approximated to 3.14.
  4. Solve examples using the formula  $C = 2\pi r$  where  $\pi = 3.14$  and  $r$  = radius.

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2. Let them know the relationship between radius and diameter.
  3. Show them that diameter is 2 times the radius. That is  $d = 2r$
  4. Solve examples using the formula  $C = \pi d$

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#### Assessment Activity

Ask the pupils to define circumference, diameter and radius. Also let them state the relationship between radius and diameter.

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#### Assessment Activity

Give them problems to solve given radius and diameter.

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#### Summary

1. Ask for volunteers to share their answers to the problems assigned.
  2. As the problems are reviewed in front of the class, have the students check their answers for accuracy.
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