

Lesson 76: Visualizing the Circumference of a Circle

Week 8

Objective: Visualizes circumference of a circle

Value Focus: Cooperation, Caring, Sharing

Prerequisite Concepts and Skills:

- Circumference of a Circle
- Deriving a Formula in Finding the Circumference of a Circle
- Finding the Circumference of a Circle

Materials: cut outs of circles, real objects inside the classroom and at home, compass, string

References: K to 12 Grade 5 Curriculum Guide M5NS-IIIh-67 p. 63, Lesson Guide in Elementary Mathematics Grade 5 pp. 362
Mathematics for a Better Life 5 pp.242-243
Grade School Mathematics 5 page 226

Instructional Procedure:

A. Preliminary Activities

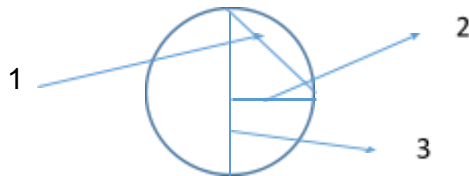
1. Drill

Identifying different kinds of plane figures using flash models



2. Review

Identify the parts of a circle (flash a model with parts numbered)



3. Motivation

Sing this song about circles. (Note: Teacher draws while pupils sing)



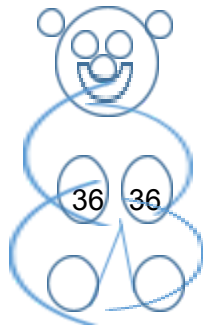
Small circle, small circle, big circle



Small circle, small circle, small circle



This is the ship I will ride, mother and father say goodbye!



6 x 6 is 36, 6 x 6 is 36, Mount Fiji.

B. Developmental Activities

1. Presentation

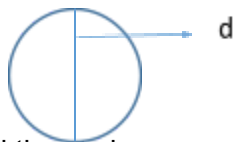
Present the problem under **Explore and Discover** on page __, LM Math Grade 5. Have them read the problem

a. Values Integration

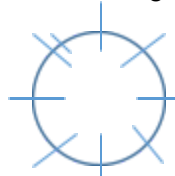
Ask: How can you show your care and concern to santan plants?
What is ask in the problem?
What is/are the given/s?
How will you answer the question in the problem?

2. Performing the Activities

- Divide the class into three groups. See to it that each group has all the required materials
- Let the pupils draw a circle with a diameter of 2 meters representing the circular garden. (See to it that pupils get the correct measurement for the diameter by letting them trace the circular object on a piece of manila paper and fold it in half.)



- Place the string around the circle.
- Using a string with meter markings on it, Count the number of meter markings.



- Let each group make the sample table on the chalkboard as shown:

| Circle | Circumference | Diameter |
|--------|---------------|----------|
| 1 | | |

3. Processing the Activities

Let the groups present their output one at a time. After all groups have presented, ask “How did you find the activity? How many markings were there? How were you able to visualize the number of meters Mrs. Alejandro planted with santan?”

Expected Answer: We used string and wind it around the circle.

4. Reinforcing the Concept and Skills

- A. Discuss the other examples under **Get Moving** on page ___ of LM Math Grade 5.
- B. For extra practice, give exercises under **Keep Moving** on pages ___ to ___, LM Math 5.

5. Summarizing the Lesson

Lead the pupils give the following generalization by asking: How do you visualize circumference of a circle?

To visualize the circumference of a circle, we use string to wind around the circle and count the number of markings on it with the help of its diameter..

6. Applying to New and Other Situation

- A. Have the pupils do the items under **Applying Your Skills** on page ___, LM Math Grade 5.

C. Assessment

A. Visualize the circumference of the following circles with

1. $d = 2.5$ cm
2. $d = 5$ cm
3. $d = 6$ cm
4. $r = 1.5$ cm
5. $r = 3.5$ cm

B. Find the circumference using illustration model.

1. $d = 2 \text{ dm}$
2. $d = 4 \text{ dm}$
3. $d = 1.5 \text{ dm}$
4. $d = 0.5 \text{ dm}$
5. $r = 5 \text{ dm}$

D. Home Activity

a. Visualize the circumference of the following:

1. plate
2. basin
3. water jug
4. cup
5. saucer