



EDUKALA



 **dheerya**
foundation



MATH

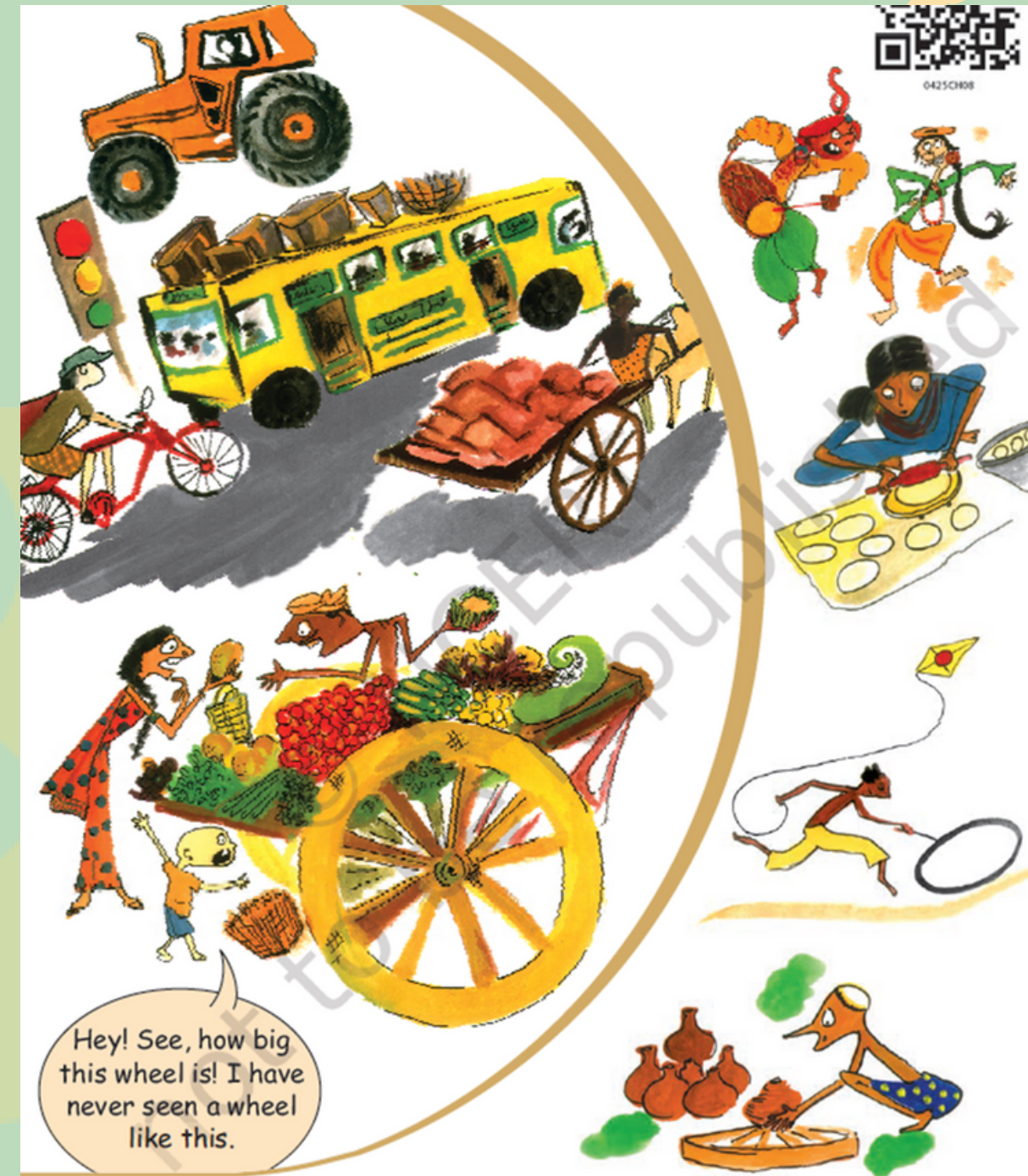
**3rd
Grade**



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CIRCLE



Look around and see how many circles you can spot around you.
List them down in your notebook

OBJECTIVES



- To help the students to identify a circle.
- To help the students understand the importance of a circle.
- To help the students to understand the difference between a smaller circle and a big circle and their radius.





PRE-ASSESSMENT



- A circle is a basic 2D shape which is measured in terms of its radius.
- You can find a lot of circle-shaped objects around you like coins, wheels, rings, buttons, hula hoops and etc. We can observe many such examples in our day to day lives.
- The size of the radius determines how big the circle becomes. Hence, by measuring the radius of the circle you can tell the difference between two circles or more.

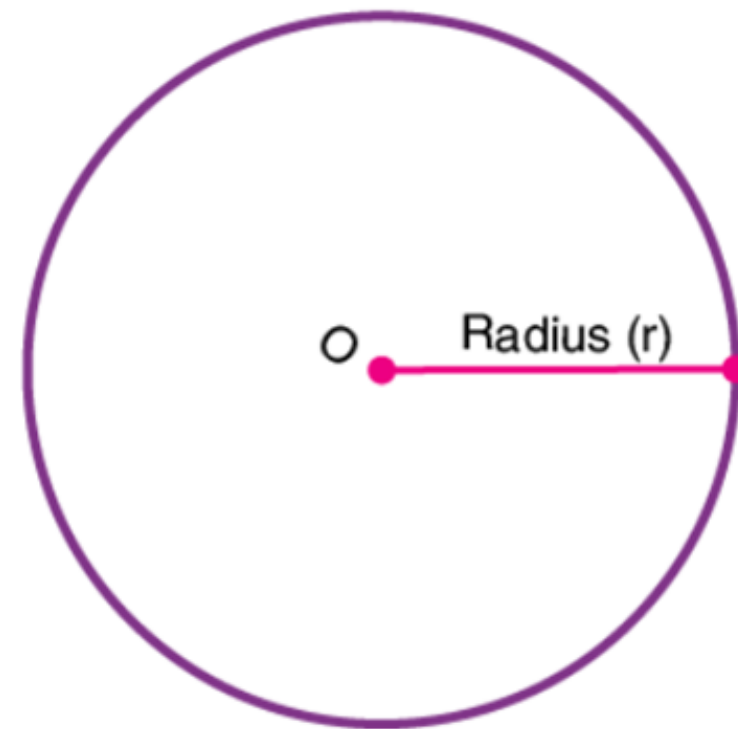


PRE-ASSESSMENT



Radius of Circle (r)

A line segment connecting the centre of a circle to any point on the circle itself ". The radius of the circle is denoted by "R" or "r".



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PRE-REQUISITES

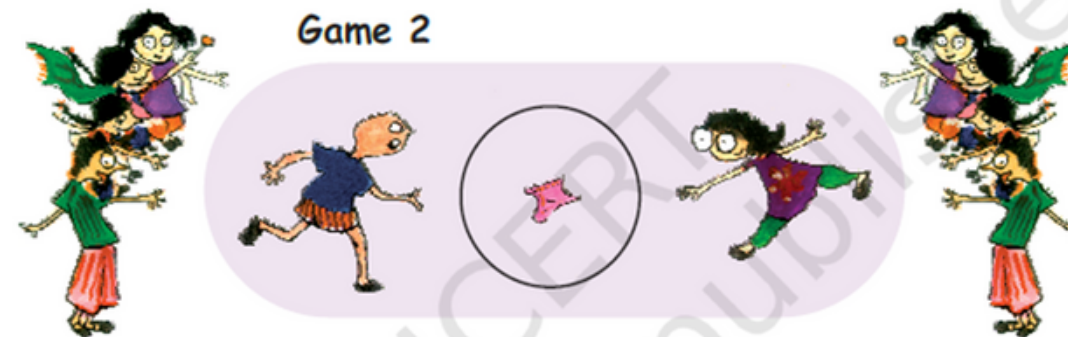
- Pencil
- Eraser
- Bangles
- Scale
- Rope
- Chalk
- Compass
- Any object (for the game)
- Paper
- Nails



ACTIVITY-1

Games with Circles

Children are playing some games



Do you play these games?

Which song do you sing when you play these?

Play these games in your school.

Why do we make a circle in each of these games?

What if a rectangle was made? Discuss.

* Think of some other games you play by making circles.



ACTIVITY-2

Find the Centre

Sadiq and Sameena want to make circles for themselves.

I will make it with a compass.



No, I will trace it with a bangle.



Then they cut their circle.

See, my circle has a centre. But where is the centre of your circle?

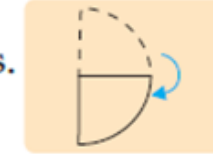


Don't worry. See how I find it.

She folded her circle into half.



Then she folded it again like this.



She opened the folded circle.

Can you see the two creased lines crossing each other?



Yes



See, I put a point where these lines cross. This is the centre of my circle.



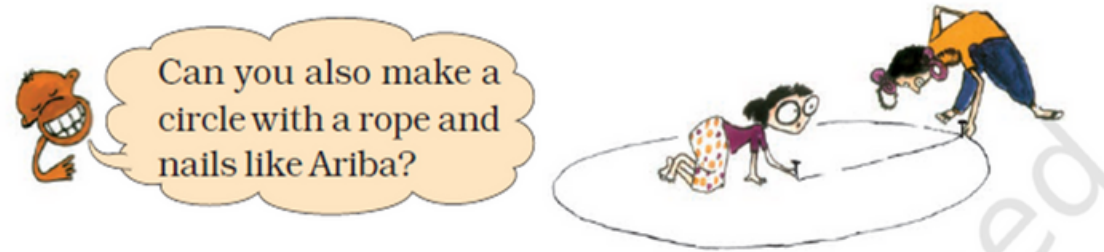
* Now you trace a circle on a paper using a bangle. Cut it. Then find its centre like Sameena did.



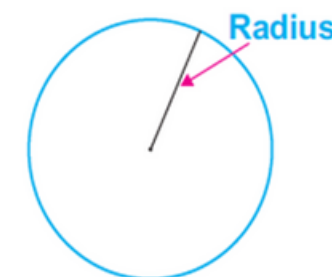
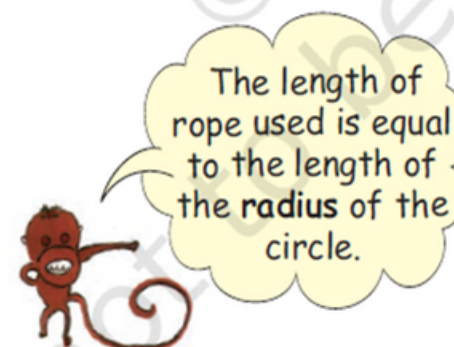
ACTIVITY-3

Making a Circle with a Rope

Ariba decided to use nails and a thread to make a circle on the ground. She took a thin rope and tied nails on both ends of the rope. Then she made a circle with the help of her friend. Look at the picture and see how they are making the circle.



- * Do the activity in small groups. Each group should take a rope of a different length. See the circles made by different groups.
- * Which group made the smallest circle? _____
How long was their rope? _____
- * Does a longer rope make a bigger circle? _____
Why is it so?



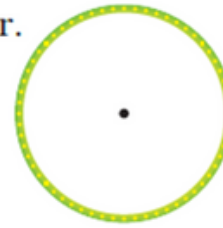
- * What was the radius of the smallest circle? _____

The purpose of this exercise is to help children make different circles, measure the lengths of their radii and see how the size of a circle changes with its radius.



POST-ASSESSMENT

- * Draw the radius of this bangle using a ruler. Measure the length of the radius.



Now see what your friends have drawn. Discuss the length of the radius they measured. Is it the same as yours?

- * Draw the radius of these circles.

Guess which circle has the longer radius. _____



Measure the radius of both the circles using a ruler.

Write the length of their radius.

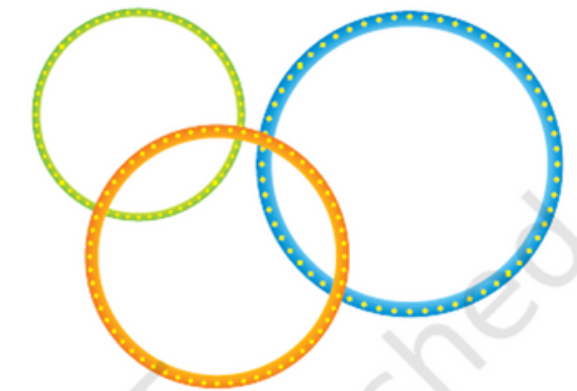
- * Radius of the green circle _____
- * Radius of the blue circle _____

Find out

- * Measure the radius of the wheels of a bicycle or a bullock-cart. You can use a thread or a measuring tape.
Are all the wheels of a bicycle or a bullock cart of the same radius? _____
- * Have you seen a tractor or a road roller?
- * Which is the biggest wheel you have ever seen?
- * Are all wheels of a tractor or road roller of the same radius?

Round Bangle

Have you ever gone to a bangle shop?



- * Guess which of these bangles is of your size.

- * Take a wire and make a bangle for yourself. Can your madam or mother wear this bangle? _____
- * A bangle can be used to trace a circle. What are the other things around you that you can use to trace a circle?

- * Trace a circle with the help of some of these things in your notebook or on the ground.
Which thing makes the smallest circle?
Which thing makes the biggest circle?



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