











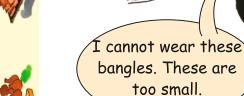


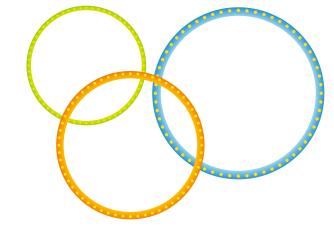
Round Bangle

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?























Games with Circles

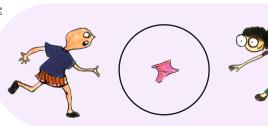
Children are playing some games







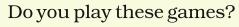












Which song do you sing when you play these?

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.























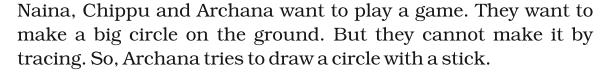








Making a Circle



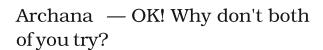


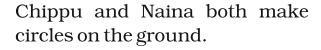






Chippu and Naina — It does not look like a circle at all.









- * Is any of these a good drawing of a circle? Discuss.
- * Can you draw a circle on the floor with a chalk? Try.
- * Also draw a circle in your notebook using a pencil.
- * Look at the circles drawn by your friends. Who has drawn the best circle?

The purpose of this exercise is to give opportunities to each child to make freehand circles. They can also make circles on the ground with a stick. They can compare different drawings to get an intuitive sense of the shape of a circle.





























Making a Circle with a Rope

Archana 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.





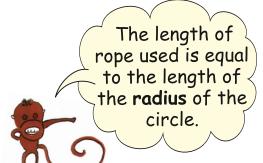
Can you also make a circle with a rope and nails like Archana?

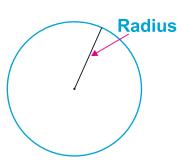




- * Do the activity in small groups. Each group should take a rope of a different length. See the circles made by different groups.
- * Which group made the smallest circle? _____ How long was their rope? ____
- * Does a longer rope make a bigger circle? ______ Can you say why?

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







* 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.



















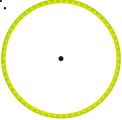






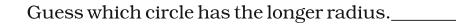


* Draw the radius of this bangle using a ruler. Measure the length of the radius.

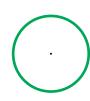


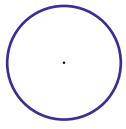


*Draw the radius of these circles.











Measure the radius of both the circles using a ruler.

Write the length of their radius.



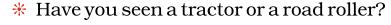




Find out

* 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?



- * Which is the biggest wheel you have ever seen?
- * Are all wheels of a tractor or road roller of the same radius?

Children need a lot of interesting exercises of making and measuring the radius of circles of different sizes. They can also make wheels and carts.

















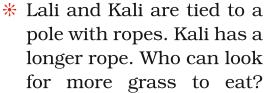












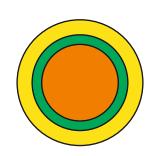




Daljeet's Design

Daljeet has made these designs using a compass.

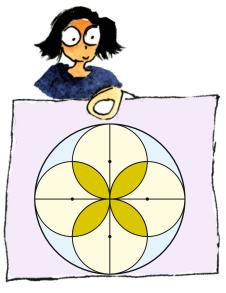








His sister came and started making more designs with him.



Do you want to make such designs? To make such designs you will need to use a compass.































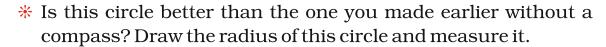
Using a Compass

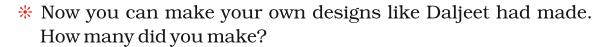
- * Have you seen a compass before? How will you use this to make a circle?
 - Open your compass.
 - Press the tip of the compass on the paper. Hold the compass from the top.
 - —Without moving the tip, try to move the pencil around.
 - Do you get a circle?



Look for a mark where you had kept the tip of the compass.

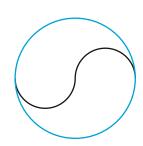
This mark is the **centre** of your circle.





Guess how this design has been made. Use a compass to make a similar one in the box.





Encourage children to explore their own designs with a compass. This will also give them more practice in drawing circles with a compass.





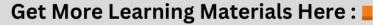
















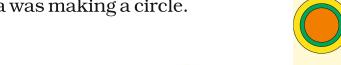




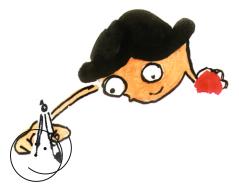




Naina was making a circle.



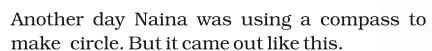
Ravi asked her for an eraser. She kept her compass and gave him the eraser. Then she started again to complete her circle. But she got this.



Guess

* Why did Naina get such a drawing? Discuss.

Can a circle have more than one centre?







* Did any one of you ever get a shape like Naina's?



Oh! The screw of the compass is loose Let me tighten it Now my compass will not slip





























Find the Centre

Sadiq and Sameena want to make circles for themselves.











Then they cut their circle.

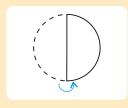


Don't worry. See See, my circle has how I find it. a centre. But where is the centre of your circle?



She folded her circle into half.

























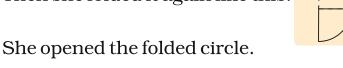




Then she folded it again like this.

Can you see the two creased lines crossing each other?













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

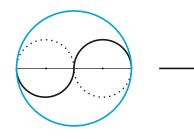


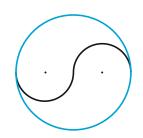


* Now you trace a circle on a paper using a bangle. Cut it. Then find its centre like Sameena did.



We can also make the design on page 88 like this. How did you do it?

































Balancing Act

Can you balance a plate on your finger?

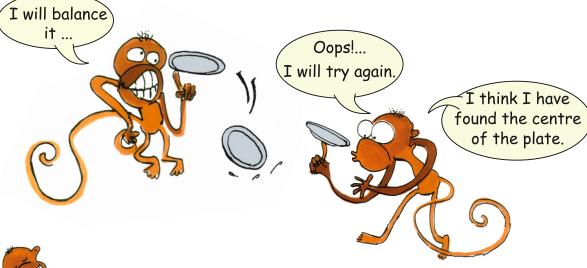














Spin the Top









Zakir, Appu, Naina and Guddu were getting bored. It was raining. So they could not go out to play.

Suddenly Appu said — Let's each make a top.













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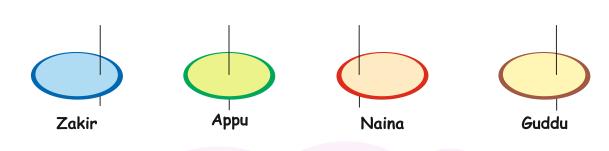




They took a piece of cardboard traced a circle on it. Then they made a hole and put a matchstick in it.



Now everybody was excited to spin their tops which looked like this.



Guess

- * Whose top will not spin at all? _____
- * Whose top will spin a little? _____
- * Whose top will spin the best? _____
- * In whose top is the stick nearest to the centre? _____

Make Your Own Top

You also make your own top and play this game.

* To make the top spin well, where will you make the hole?









