

CHAPTER – 8

CARTS AND WHEELS

Page No 82:

Question 1: Take a wire and make a bangle for yourself. Can your teacher wear this bangle? _____

Answer:

***Disclaimer:** The answer may vary from student to student. It is highly recommended that students prepare the answer on their own.*

Question 2: A bangle can be used to trace a circle. What are the other things around you that you can use to trace a circle?

Answer:

Other things that can be used to trace a circle are coin, bottle cap, pen cap, plate, etc.

***Disclaimer:** The purpose of this section is to make the students observe their surroundings. The answer may vary from student to student based on his/her experience. The answer provided here is for reference only.*

Question 3: Trace a circle with the help of some of these in your notebook or on the ground. Which thing makes the smallest circle? Which thing makes the biggest circle?

Answer:

The smallest circle can be made with the help of a pen cap. The biggest circle can be made with the help of a round plate in which we eat.

Disclaimer: *The answer may vary from student to student based on his/her experience. The answer provided here is for reference only.*

Page No 83:

Question 1: Think of some other games you play by making circles.

Answer:

Dog in the bone and truth and dare are two games that we play by making circles.

Disclaimer: *The answer may vary from student to student based on his/her experience. The answer provided here are for reference only.*

Page No 84:

Question 1:



- 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?

Answer:

- Yes, the circle drawn by Chippu is good.
- Yes, we can draw a circle on the floor with a chalk.

***Disclaimer:** The answer may vary from student to student based on his/her experience. The answer provided here is for reference only.*

Page No 85:

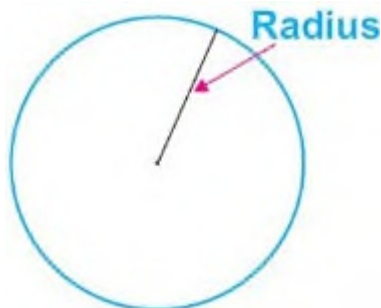
Question 1:

- 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?

Answer:

***Disclaimer:** The answer may vary from student to student. It is highly recommended that students prepare the answer on their own.*

Question 2:



The length of rope used is equal to the length of the radius of the circle. •
What was the radius of the smallest circle? _____

Answer:

***Disclaimer:** The answer may vary from student to student. It is highly recommended that students prepare the answer on their own.*

Page No 86:

Question 1: Draw the radius of this bangle using a ruler. Measure the length of the radius.



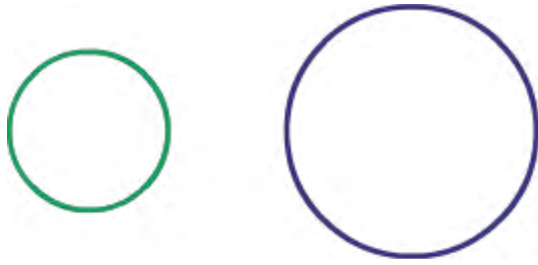
Answer:



The radius of the bangle is 2 cm.

Question 2:

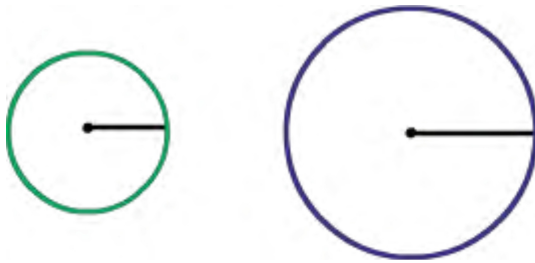
• Draw the radius of these circles. Guess which circle has the longer radius.



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 _____

Answer:



The blue circle has a larger radius as compared to the green circle.

- Radius of the green circle 1 cm
- Radius of the blue circle 1.5 cm

Question 3: *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?

- Lali and Kali are tied to a pole with ropes. Kali has a longer rope. Who can look for more grass to eat? _____

Answer:

- All the wheels of a bicycle or a bullock cart are not of the same radius. They have different radius depending upon the size of the bicycle or the bullock cart.
- Kali will get more grass to eat as Kali is tied to a longer rope.

***Disclaimer:** The answer may vary from student to student based on his/her experience. The answer provided here is for reference only.*

Page No 88:

Question 1:

- Is this circle better than the one you made earlier without a compass? Draw the radius of this circle and measure it.
- Now you can make your own designs like Daljeet had made. How many did you make? Guess how this design has been made. Use a compass to make a similar one in the box.



Answer:

***Disclaimer:** The answer may vary from student to student based on his/her observation. It is highly recommended that students prepare the answer on their own.*

Page No 89:

Question 1:



Guess

- Why did Naina get such a drawing? Discuss.
- Can a circle have more than one centre?

Answer:

- Naina got such a drawing because she had changed the centre of the circle.
- No, a circle cannot have more than one centre.

Question 2: **Guess** • Did any one of you ever get a shape like Naina's?



Answer:

Disclaimer: The answer may vary from student to student based on his/her observation. It is highly recommended that students prepare the answer on their own.

Question 1: Now you trace a circle on a paper using a bangle. Cut it. Then find its centre like Sameena did.

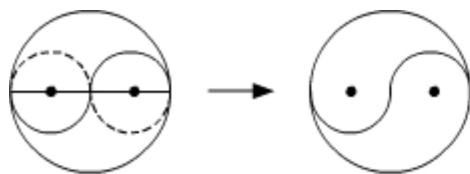
Answer:

Disclaimer: The purpose of this section is to make the students understand the concept of radius. The answer may vary from student to student based on his/her observation. It is highly recommended that the students prepare the answer on their own.

Question 2: We can also make the design on page 88 like this. How did you do it?

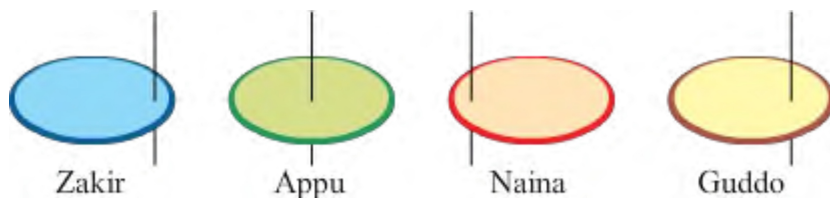


Answer:



Page No 93:

Question 1:



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? _____

Answer:

- Zakir's and Naina's tops will not spin at all.
- Guddo's top will spin a little.
- Appu's top will spin the best.
- In Appu's top, the stick is nearest to the centre.

Question 2: To make the top spin well, where will you make the hole?

Answer:

To make the top spin well, we will make the hole in its centre.