



## SRI SARADA DEVI VIDYA KENDRA-SHIVANAHALLI

Name:

Subject: Mathematics

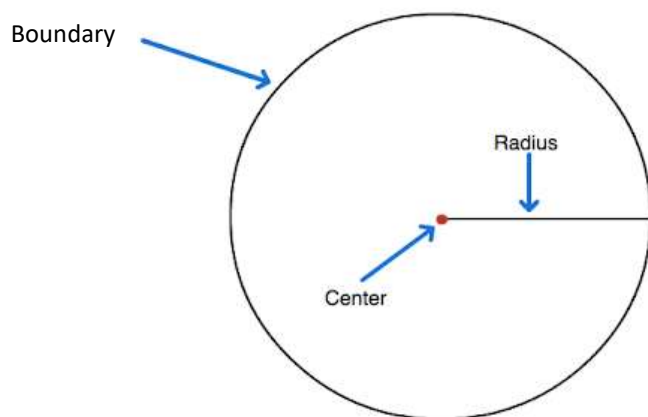
Class: 5<sup>th</sup>

Topic: 15

Village name:

### Recall:

- ❖ **Centre of the circle** - The fixed point is the middle of the circle.
- ❖ **Radius** - The distance between the centre point of the circle to any point on circle(boundary) is called **Radius**. It is generally denoted by  $r$ .
- ❖ **Boundary** – The outer part of the circle is called **Boundary** of the circle;

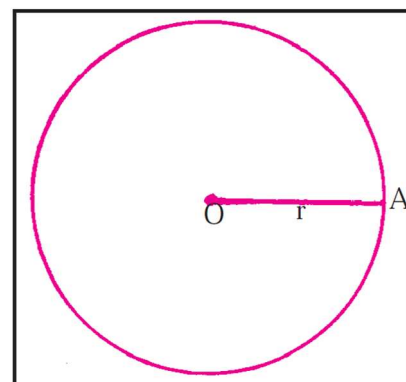


### 1. Complete the following using suitable answers.

a) The distance between the centre of a circle and a point on the circle is called.....

b) In the given figure,

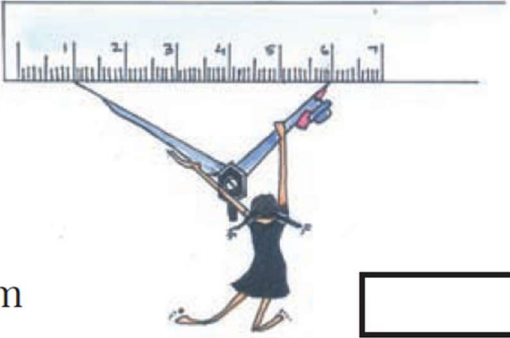
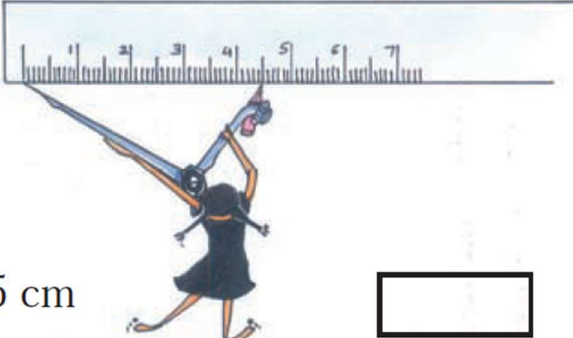
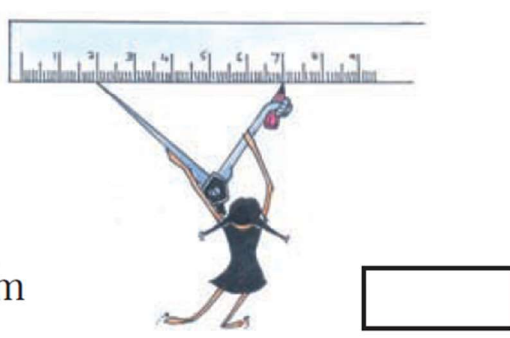
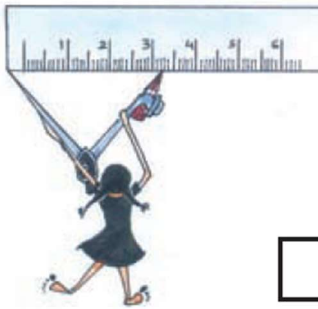
- 1) Centre of the circle is .....
- 2) Radius of the circle is represented by the line segment .....
- 3) Radius of the circle is .....



### 2. Mark the correct statement by '✓' and false statement by '×'

- a) Only one radius can be drawn to a circle ( )
- b) All radii of a circle are equal ( ) [radii is the plural form of radius]
- c) There is only one centre for a circle ( )

3. Check If the compasses are placed correctly, put '✓' if it is right and put 'x' if it is wrong.

<p>a)</p>  <p>6 cm</p> <input data-bbox="563 622 719 689" type="text"/>	<p>b)</p>  <p>4.5 cm</p> <input data-bbox="1278 622 1436 689" type="text"/>
<p>c)</p>  <p>5 cm</p> <input data-bbox="563 1025 719 1093" type="text"/>	<p>d)</p>  <p>3.3 cm</p> <input data-bbox="1278 1025 1436 1093" type="text"/>

4. Draw a circle of radius 3 cm and mark its centre as O.

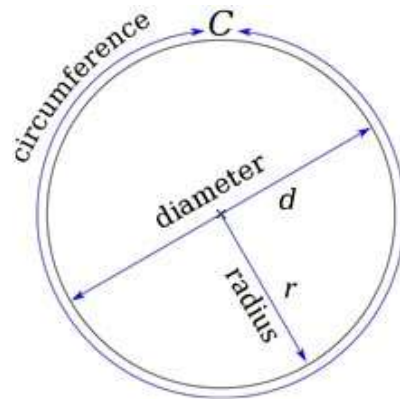
After marking the centre as O, follow the instruction given below

- Draw a line through the centre of the circle O, such that the line touches two points on the boundary of the circle.
- Measure the length of the line drawn through the centre of the circle

### Diameter of a circle

The **diameter** is the length of the line which passes through the centre of the circle which touches two points on the boundary of the **circle**.

- Diameter is represented by **d**

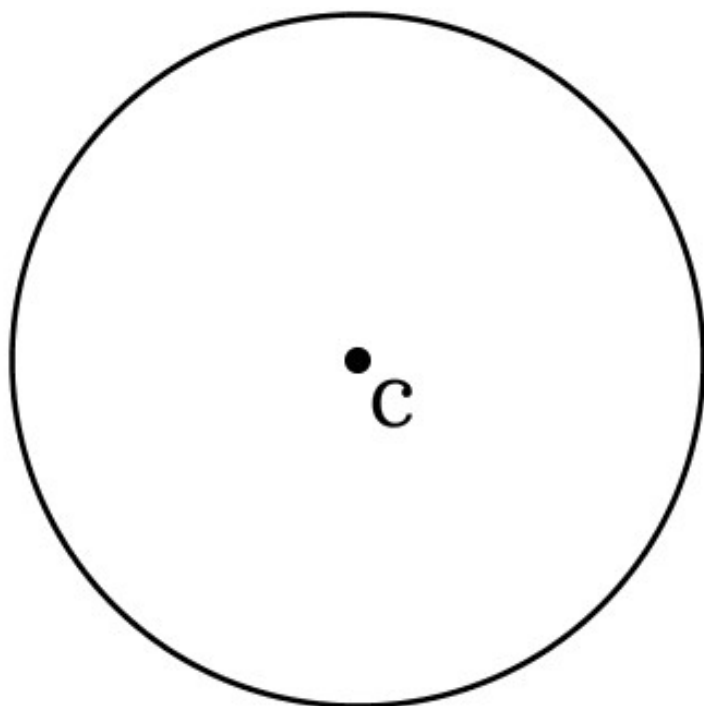
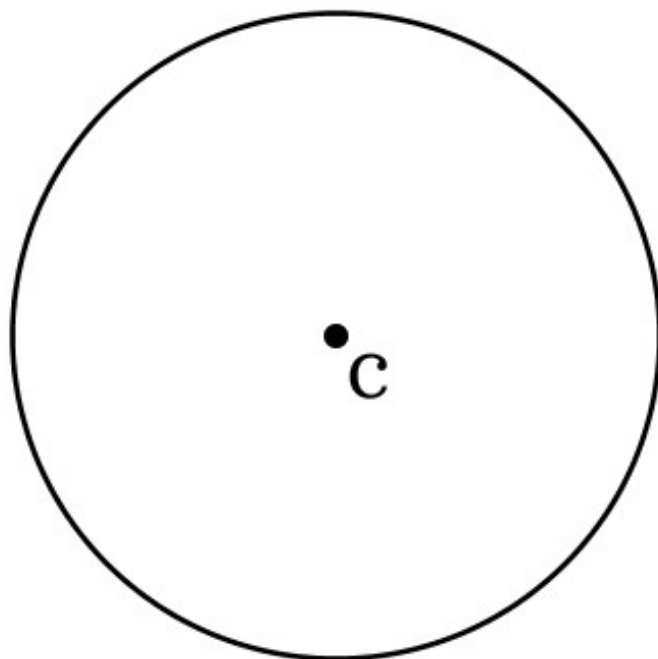
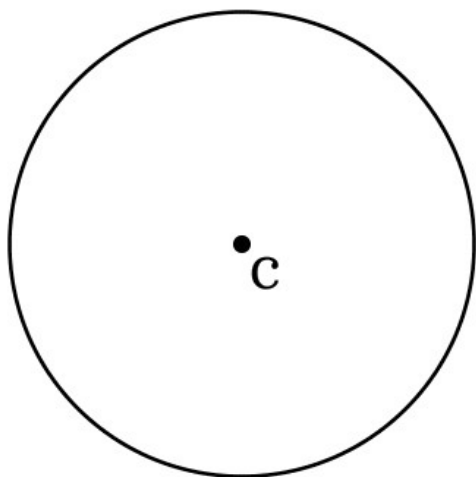


5. Draw a circle with radius 5cm and show three diameters.

After drawing, measure the length of the diameters and enter in the below table.

Diameter	Length of the diameter (d)
1	
2	
3	

6. Measure the radius and diameter of given circles:



<b><i>Circle</i></b>	<b><i>Radius (r)</i></b>	<b><i>Diameter(d)</i></b>
<b><i>1</i></b>		
<b><i>2</i></b>		
<b><i>3</i></b>		

Observe the above table, do you find any connection between radius and the diameter of the circle? \_\_\_\_\_

➤ What is the connection between radius and diameter of the circle?

\_\_\_\_\_.