

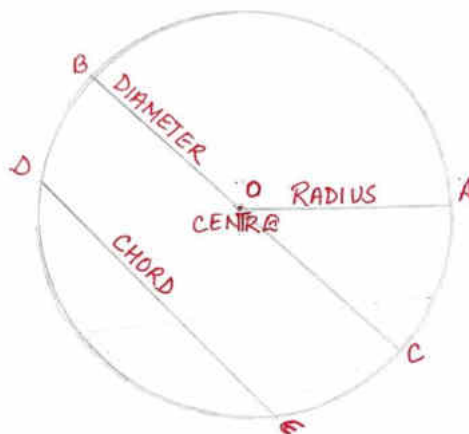
Class Notes	
Class: 4	Chapter : 8
Subject: Mathematics	Carts And Wheels
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Circle Facts –

1. **Circle** – it is defined as a set of points on a plane that are at the same distance from a fixed point called the center.
2. **Circumference** – it is the set of points that form the circle, is also called its perimeter.
3. **Radius** – It is the distance from the center to any point on the circumference. The plural of radius is **Radii**.
4. **Chord** – it is a line segment that joins two points on the circumference of a circle.
5. **Diameter** – it is a chord that passes through the center of the circle.

PARTS OF A CIRCLE



1. O – center
2. OA – Radius
3. BC – Diameter
4. DE – Chord

PROPERTIES OF A RADIUS

- ❖ All radii are of equal length.
- ❖ Radius is half of diameter.
- ❖ A circle can have infinite number of radii.

PROPERTIES OF A CHORD

- ✓ Chords are of different lengths
- ✓ A circle can have infinite chords.
- ✓ Diameter is also a chord. It is known as the longest chord.

PROPERTIES OF A DIAMETER

- All diameters are of equal length.
- A diameter divides the circle into 2 equal halves.
- It always passes through the center of the circle.
- Diameter is double of radius.

Exercise – I

Fill up the blank-

- 1) A **circle** is a closed curve.
- 2) A circle has only **one** center.
- 3) Diameter is **double** of radius.
- 4) A **diameter** divides a circle into 2 equal parts.
- 5) All radii are of **equal** length.
- 6) Diameter is the **longest** chord.
- 7) Chords are of **different** lengths.
- 8) Radius is **half** of diameter.
- 9) Length of a circle or distance around the circle is called the **circumference**.
- 10) Diameter always passes through the **center** of the circle.

The above content has been prepared from home.