

Class Notes	
Class: 4	Chapter: 8
Subject: Mathematics	Carts And Wheels
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Relationship between Radius and Diameter –

- Diameter = $R \times 2$ (R = radius) **(diameter is double of radius)**
- Radius = $\frac{1}{2} \times D$ (D = diameter) **(radius is half of diameter)**

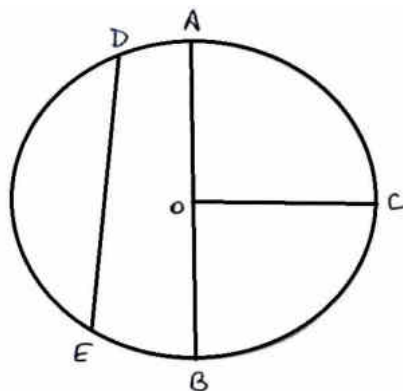
Q.1 Find the diameter, if Radius is –

- 1) R = 4 cm D = $4 \times 2 = 8$ cm **[Diameter is 8 cm]**
- 2) R = 15cm D = $15 \times 2 = 30$ cm **[Diameter is 30 cm]**
- 3) R = 12 cm D = $12 \times 2 = 24$ cm **[Diameter is 24 cm]**
- 4) R = 17 cm D = $17 \times 2 = 34$ cm **[Diameter is 34 cm]**

Q.2 Find the Radius, if Diameter is –

- 1) D = 16 cm R = $\frac{1}{2} \times 16 = 8$ cm **[$16 \div 2 = 8$]**
- 2) D = 8 cm R = $\frac{1}{2} \times 8 = 4$ cm **[$8 \div 2 = 4$]**
- 3) D = 15 cm R = $\frac{1}{2} \times 15 = 7.5$ cm **[$15 \div 2 = 7.5$]**
- 4) D = 20 cm R = $\frac{1}{2} \times 20 = 10$ cm **[$20 \div 2 = 10$]**

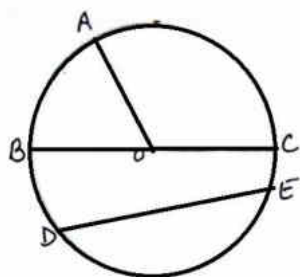
Q.3 Study the circle given below –



Answer the following questions –

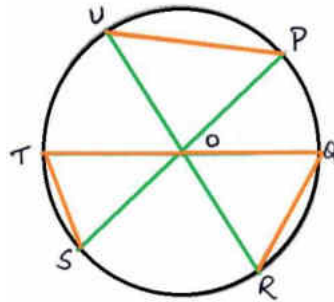
- 1) What does 'O' indicate or show?
Centre
- 2) What does 'AB' indicate or show?
Diameter
- 3) What does 'DE' indicate?
Chord
- 4) What does 'OC' indicate?
Radius

Q.4 In the given figure name the following –



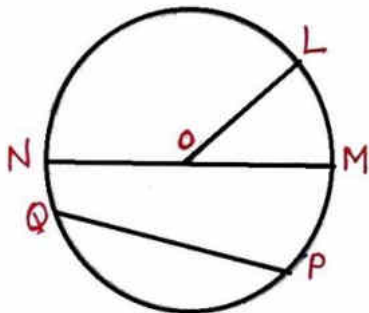
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|----------------------|-------------------------|
| 1. Centre = O | 2. Diameter = BC |
| 3. Chord = DE | 4. Radius = OA |

Q.5 Study the following figure and answer the following questions –



- 1] Find all the radii.
OP, OQ, OR, OS, OT, OU
- 2] Find all the chords.
UP, TS, RQ, UR, PS, TQ
- 3] Find all the diameters.
PS, UR, TQ

Q. 6 State whether true or false –



- 1] $OL = OM$ **True**
- 2] $QP = NM$ **False**
- 3] OL is half ($\frac{1}{2}$) of NM **True**
- 4] NM and PQ are diameters **False**
- 5] L, M, N, P, Q are points on the circumference. **True**
- 6] OL, OM AND ON are not equal **False**

The above content has been prepared from home.