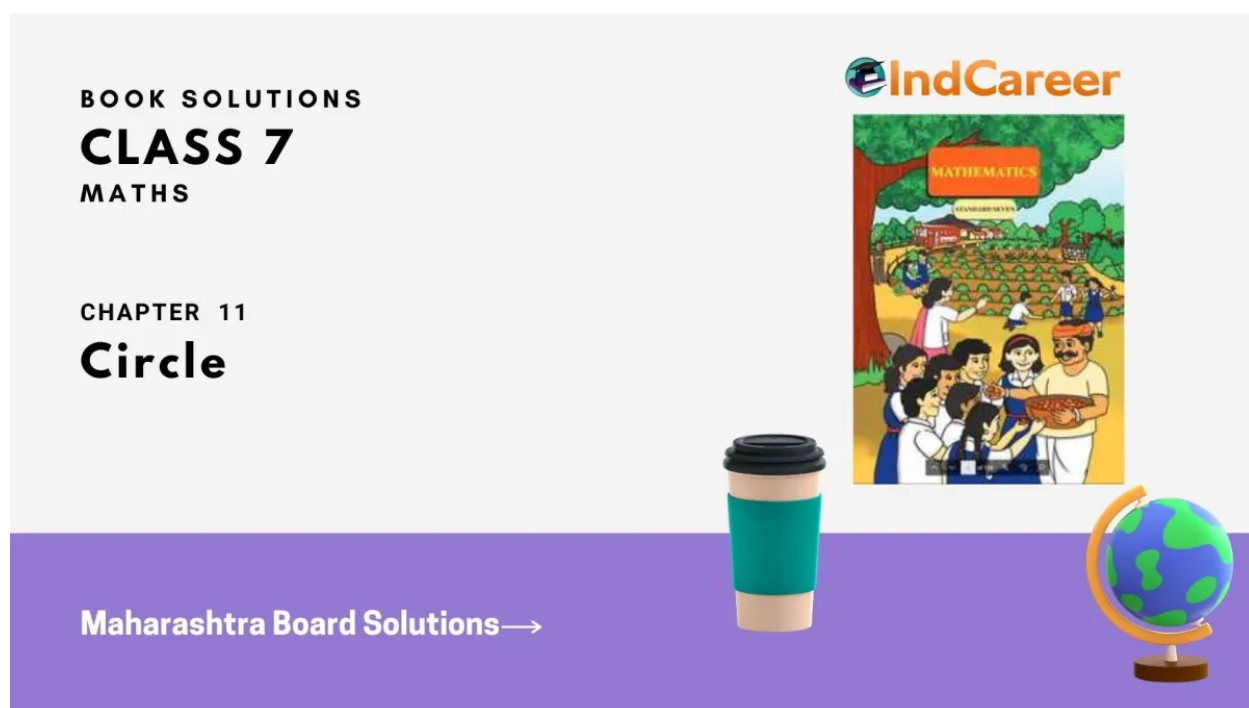


Maharashtra Board Solutions Class 7-Maths

(Practice Set 42): Chapter 11- Circle



For any clarifications or questions you can write to info@indcareer.com

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Maharashtra Board Solutions Class 7-Maths

(Practice Set 42): Chapter 11- Circle

Class 7: Maths Chapter 11 solutions. Complete Class 7 Maths Chapter 11 Notes.

Maharashtra Board Solutions Class 7-Maths (Practice Set 42): Chapter 11- Circle

Maharashtra Board 7th Maths Chapter 11, Class 7 Maths Chapter 11 solutions

Question 1.

Complete the table below:

Sr. No	Radius (r)	Diameter (d)	Circumference (c)
i.	7 cm		
ii.		28 cm	
iii.			616 cm
iv.			72.6 cm

Solution:

i. Radius (r) = 7 cm

Diameter (d) = 2r

= 2 x 7 = 14 cm

Circumference (c) = πd

= 227 x 14

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$$= 44 \text{ cm}$$

ii. Diameter (d) = 28 cm

$$\text{Radius (r)} = \frac{d}{2} = \frac{28}{2} = 14 \text{ cm}$$

$$\text{Circumference (c)} = \pi d$$

$$= 227 \times 28$$

$$= 88 \text{ cm}$$

iii. Circumference (c) = 616 cm

$$\therefore \pi d = 616$$

$$\therefore 227 \times d = 616$$

$$\therefore d = \frac{616 \times 722}{227}$$

$$\therefore d = 196 \text{ cm}$$

$$\therefore \text{Diameter (d)} = 196 \text{ cm}$$

$$\text{Radius (r)} = \frac{d}{2} = \frac{196}{2} = 98 \text{ cm}$$

iv. Circumference (c) = 72.6 cm

$$\therefore \pi d = 72.6$$

$$227 \times d = 72.6$$

$$\therefore d = \frac{72.6 \times 722}{227} = \frac{72610 \times 722}{227} = 33 \times 710$$

$$\therefore d = 23.1 \text{ cm}$$

$$\therefore \text{Diameter (d)} = 23.1 \text{ cm}$$

$$\text{Radius (r)} = \frac{d}{2} = \frac{23.1}{2}$$

$$= 11.55 \text{ cm}$$

Sr. No	Radius (r)	Diameter (d)	Circumference (c)
i.	7 cm	14 cm	44 cm
ii.	14 cm	28 cm	88 cm
iii.	98 cm	196 cm	616 cm
iv.	11.55 cm	23.1 cm	72.6 cm

Question 2.

If the circumference of a circle is 176 cm, find its radius.

Solution:

Circumference (c) = 176 cm

$$\therefore 2\pi r = 176$$

$$\therefore 2 \times 227 \times r = 176$$

$$\therefore 447 \times r = 176$$

$$\therefore r = 176 \times 744 = 28 \text{ cm}$$

$\therefore$ The radius of the circle is 28 cm.

Question 3.

The radius of a circular garden is 56 m. What would it cost to put a 4-round fence around this garden at a rate of 40 rupees per metre?

Solution:

Radius of the circular garden (r) = 56 m

$$\therefore \text{Circumference of the circular garden (c)} = 2\pi r$$

$$= 2 \times 227 \times 56$$

$$= 352 \text{ m}$$

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∴ Length of the wire required to put 1-round fence = Circumference

∴ Length of wire required to put a 4-round fence = 4 x Circumference

$$= 4 \times 352$$

$$= 1408 \text{ m}$$

∴ Cost of wire per meter = Rs 40

∴ Total cost = length of wire required x cost of the wire

$$= 1408 \times 40$$

$$= \text{Rs } 56320$$

∴ The cost to put a 4-round fence around the garden is Rs 56320.

Question 4.

The wheel of a bullock cart has a diameter of 1.4 m. How many rotations will the wheel complete as the cart travels 1.1 km?

Solution:

Diameter of the wheel of the bullock cart (d) = 1.4 m

Circumference of the wheel of the bullock cart (c) = πd

$$= 227 \times 1.4 = 227 \times 1410 = 4410 = 4.4 \text{ m}$$

Distance covered in 1 rotation = Circumference of the wheel

$$= 4.4 \text{ m}$$

$$\begin{aligned}\text{Number of rotations} &= \frac{\text{Distance covered}}{\text{Circumference}} \\ &= \frac{1.1 \text{ km}}{4.4 \text{ m}} = \frac{1.1 \times 1000 \text{ m}}{4.4 \text{ m}} \quad \dots [1 \text{ km} = 1000 \text{ m}] \\ &= \frac{11 \times 1000}{44} \\ &= 250\end{aligned}$$

∴ The wheel of the bullock cart will complete 250 rotations as the cart travels 1.1 km.

Intext Questions and Activities

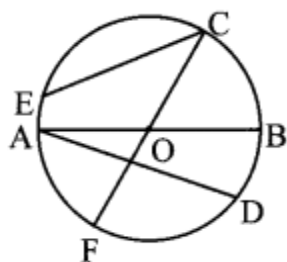
Question 1.

Identify the radii, chords and diameters in the circle alongside and write their names in the table below: (Textbook pg. no. 75)

i. Radii

ii. Chords

iii. Diameters



Solution:

i. OA, OB, OC, OF

ii. EC, AD, AB, FC

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iii. AB, FC



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- Chapter 1- Geometrical Constructions (Practice Set 1)
- Chapter 1- Geometrical Constructions (Practice Set 2)
- Chapter 1- Geometrical Constructions (Practice Set 3)
- Chapter 1- Geometrical Constructions (Practice Set 4)
- Chapter 1- Geometrical Constructions (Practice Set 5)
- Chapter 1- Geometrical Constructions (Practice Set 6)
- Chapter 1- Geometrical Constructions (Practice Set 7)
- Chapter 2- Multiplication and Division of Integers (Practice Set 8)
- Chapter 2- Multiplication and Division of Integers (Practice Set 9)
- Chapter 3- HCF and LCM (Practice Set 10)
- Chapter 3- HCF and LCM (Practice Set 11)
- Chapter 3- HCF and LCM (Practice Set 12)
- Chapter 3- HCF and LCM (Practice Set 13)
- Chapter 3- HCF and LCM (Practice Set 14)
- Chapter 4- Angles and Pairs of Angles (Practice Set 15)
- Chapter 4- Angles and Pairs of Angles (Practice Set 16)
- Chapter 4- Angles and Pairs of Angles (Practice Set 17)
- Chapter 4- Angles and Pairs of Angles (Practice Set 18)
- Chapter 4- Angles and Pairs of Angles (Practice Set 19)
- Chapter 4- Angles and Pairs of Angles (Practice Set 20)
- Chapter 4- Angles and Pairs of Angles (Practice Set 21)

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- Chapter 5- Operations on Rational Numbers (Practice Set 22)
- Chapter 5- Operations on Rational Numbers (Practice Set 23)
- Chapter 5- Operations on Rational Numbers (Practice Set 24)
- Chapter 5- Operations on Rational Numbers (Practice Set 25)
- Chapter 6- Indices (Practice Set 26)
- Chapter 6- Indices (Practice Set 27)
- Chapter 6- Indices (Practice Set 28)
- Chapter 6- Indices (Practice Set 29)
- Chapter 6- Indices (Practice Set 30)
- Chapter 7- Joint Bar Graph (Practice Set 31)
- Chapter 8- Algebraic Expressions and Operations on them (Practice Set 32)
- Chapter 8- Algebraic Expressions and Operations on them (Practice Set 33)
- Chapter 8- Algebraic Expressions and Operations on them (Practice Set 34)
- Chapter 8- Algebraic Expressions and Operations on them (Practice Set 35)
- Chapter 8- Algebraic Expressions and Operations on them (Practice Set 36)
- Chapter 9- Direct Proportion and Inverse Proportion (Practice Set 37)
- Chapter 9- Direct Proportion and Inverse Proportion (Practice Set 38)
- Chapter 9- Direct Proportion and Inverse Proportion (Practice Set 39)
- Chapter 10- Bank and Simple Interest (Practice Set 40)
- Chapter 10- Bank and Simple Interest (Practice Set 41)
- Chapter 11- Circle (Practice Set 42)

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- Chapter 11- Circle (Practice Set 43)
- Chapter 12- Perimeter and Area (Practice Set 44)
- Chapter 12- Perimeter and Area (Practice Set 45)
- Chapter 12- Perimeter and Area (Practice Set 46)
- Chapter 12- Perimeter and Area (Practice Set 47)
- Chapter 13- Pythagoras Theorem (Practice Set 48)
- Chapter 13- Pythagoras Theorem (Practice Set 49)
- Chapter 14- Algebraic Formulae - Expansion of Squares (Practice Set 50)
- Chapter 14- Algebraic Formulae - Expansion of Squares (Practice Set 51)
- Chapter 14- Algebraic Formulae - Expansion of Squares (Practice Set 52)
- Chapter 14- Algebraic Formulae - Expansion of Squares (Practice Set 53)
- Chapter 15- Statistics (Practice Set 54)
- Chapter 14- Statistics (Practice Set 55)

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About About Maharashtra State Board (MSBSHSE)

The Maharashtra State Board of Secondary and Higher Secondary Education or MSBSHSE (Marathi: महाराष्ट्र राज्य माध्यमिक आणि उच्च माध्यमिक शिक्षण मंडळ), is an **autonomous and statutory body established in 1965**. The board was amended in the year 1977 under the provisions of the Maharashtra Act No. 41 of 1965.

The Maharashtra State Board of Secondary & Higher Secondary Education (MSBSHSE), Pune is an independent body of the Maharashtra Government. There are more than 1.4 million students that appear in the examination every year. The Maha State Board conducts the board examination twice a year. This board conducts the examination for SSC and HSC.

The Maharashtra government established the Maharashtra State Bureau of Textbook Production and Curriculum Research, also commonly referred to as Ebalbharati, in 1967 to take up the responsibility of providing quality textbooks to students from all classes studying under the Maharashtra State Board. MSBHSE prepares and updates the curriculum to provide holistic development for students. It is designed to tackle the difficulty in understanding the concepts with simple language with simple illustrations. Every year around 10 lakh students are enrolled in schools that are affiliated with the Maharashtra State Board.

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FAQs

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As of now, the MSCERT and Balbharti are responsible for the syllabus and textbooks of Classes 1 to 8, while Classes 9 and 10 are under the Maharashtra State Board of Secondary and Higher Secondary Education (MSBSHSE).

How many state boards are there in Maharashtra?

The Maharashtra State Board of Secondary & Higher Secondary Education, conducts the HSC and SSC Examinations in the state of Maharashtra through its nine Divisional Boards located at Pune, Mumbai, Aurangabad, Nasik, Kolhapur, Amravati, Latur, Nagpur and Ratnagiri.

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