

Maharashtra Board Solutions Class 7-Maths (Practice Set 45): Chapter 12- Perimeter and Area



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Postal Address

IndCareer.com, 52, Shilpa Nagar, Somalwada Nagpur - 440015
Maharashtra, India

WhatsApp: +91 9561 204 888, **Website:** <https://www.indcareer.com>

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Maharashtra Board Solutions Class 7-Maths (Practice Set 45): Chapter 12- Perimeter and Area

Class 7: Maths Chapter 12 solutions. Complete Class 7 Maths Chapter 12 Notes.

Maharashtra Board Solutions Class 7-Maths (Practice Set 45): Chapter 12- Perimeter and Area

Maharashtra Board 7th Maths Chapter 12, Class 7 Maths Chapter 12 solutions

Question 1.

If the side of a square is 12 cm, find its area.

Solution:

$$\text{Area of a square} = (\text{side})^2 = (12)^2$$

$$= 144 \text{ sq. cm.}$$

∴ The area of the square is 144 sq. cm.

Question 2.

If the length of a rectangle is 15 cm and breadth is 5 cm, find its area.

Solution:

$$\text{Area of a rectangle} = \text{length} \times \text{breadth}$$

$$= 15 \times 5$$

$$= 75 \text{ sq. cm.}$$

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∴ The area of the rectangle is 75 sq. cm.

Question 3.

The area of a rectangle is 102 sq. cm. If its length is 17 cm, what is its perimeter?

Solution:

Area of a rectangle = length $\times$ breadth

$$\therefore 102 = 17 \times \text{breadth}$$

$$\therefore \text{breadth} = \frac{102}{17} = 6 \text{ cm}$$

Perimeter of rectangle = 2 (length + breadth)

$$= 2 (17 + 6)$$

$$= 2 \times 23$$

$$= 46 \text{ cm}$$

∴ The perimeter of rectangle is 46 cm.

Question 4.

If the side of a square is tripled, how many times will its area be as compared to the area of the original square?

Solution:

Let the side of the square be a.

$$\therefore \text{Area of a square} = (\text{side})^2 = a^2$$

$$\text{New side of the square} = 3 \times a = 3a$$

$$\therefore \text{New area of the square} = (3a)^2$$

$$= 9a^2$$

$$= 9 \times \text{area of original square}$$

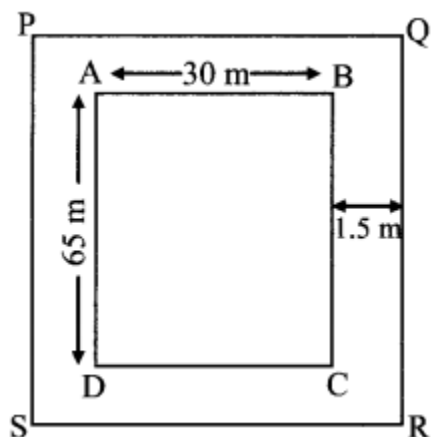
∴ If the side of a square is tripled, its area will become 9 times the area of the original square.

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Intext Questions and Activities

Question 1.

A rectangular playground is 65m long and 30m wide. A pathway of 1.5 m width goes all around the ground, outside it. Find the area of the pathway. (Textbook pg. no. 82)



Solution:

The playground is rectangular.

▭ABCD is the playground. Around it is a pathway 1.5 m wide.

Around ▭ABCD we get the rectangle ▭PQRS

Length of new rectangle PQRS = $65 + 1.5 + 1.5 = 68$ m

Breadth of new rectangle PQRS = $30 + 1.5 + 1.5 = 33$ m

Area of path = Area of rectangle PQRS – Area of rectangle ABCD = $68 \times 33 - 65 \times 30$

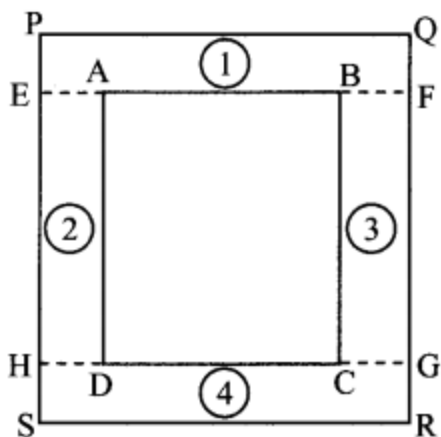
= $2244 - 1950$

= 294 sq m

Question 2.

Is there another way to find the area of the pathway in the problem above? (Textbook pg. no. 82)

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**Solution:**

Yes. The area of the pathway can be found by dividing it into rectangles and adding the areas of these rectangles.

$$\text{Length of rectangle 1} = 30 + 1.5 + 1.5 = 33 \text{ m}$$

$$\text{Breadth of rectangle 1} = 1.5 \text{ m}$$

$$\therefore \text{Area of rectangle 1} = 33 \times 1.5$$

$$= 49.5 \text{ sq. m}$$

$$\text{Area of rectangle 4} = \text{Area of rectangle 1}$$

$$= 49.5 \text{ sq. m.}$$

$$\text{Length of rectangle 2} = 65 \text{ m}$$

$$\text{breadth of rectangle 2} = 1.5 \text{ m}$$

$$\therefore \text{Area of rectangle 2} = 65 \times 1.5$$

$$= 97.5 \text{ sq. m.}$$

$$\text{Area of rectangle 3} = \text{area of rectangle 2}$$

$$= 97.5 \text{ sq. m.}$$

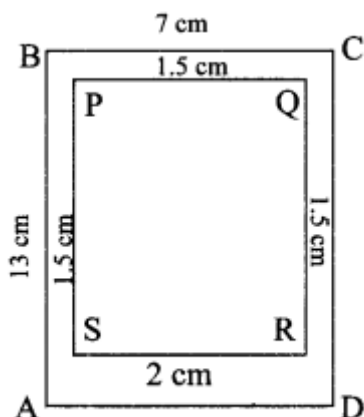
$$\therefore \text{Area of pathway} = \text{Sum of area of the 4 rectangles} = 49.5 + 49.5 + 97.5 + 97.5$$

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= 294 sq. m.

Question 3.

The length and the width of a mobile phone are 13 cm and 7 cm respectively. It has a screen PQRS as shown in the figure. What is the area of the screen? (Textbook pg. no. 82)



Solution:

ABCD is the rectangle formed by the edges of the mobile. PQRS is the rectangle formed by leaving a 1.5 cm wide edge alongside AB, BC, and DC, and a 2 cm edge alongside DA.

Length of rectangle PQRS = 9.5 cm

Breadth of rectangle PQRS = 4 cm

Area of screen = Area of rectangle PQRS = 9.5 x 4

= 38 sq .cm



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- Chapter 4- Angles and Pairs of Angles (Practice Set 16)
- Chapter 4- Angles and Pairs of Angles (Practice Set 17)
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- 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)
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- 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)
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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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Who developed the Maharashtra State board books?

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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Somalwada
Nagpur - 440015
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