

Maharashtra Board Solutions Class 5-Maths

(Problem Set 48) - Part 2: Chapter 12-

Perimeter and Area

BOOK SOLUTIONS
CLASS 5
MATHS (PART 2)

CHAPTER 12
Perimeter and Area





Maharashtra Board Solutions→

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Maharashtra Board Solutions Class 5-Maths

(Problem Set 48) - Part 2: Chapter 12-

Perimeter and Area

Class 5: Maths Chapter 12 solutions. Complete Class 5 Maths Chapter 12 Notes.

Maharashtra Board Solutions Class 5-Maths (Problem Set 48) - Part 2: Chapter 12- Perimeter and Area

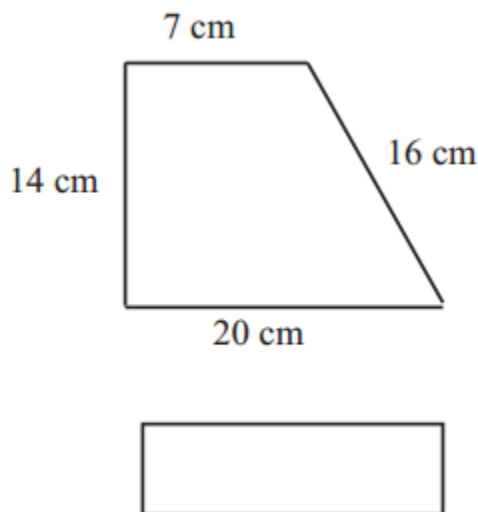
Maharashtra Board 5th Maths Chapter 12, Class 5 Maths Chapter 12 solutions

Important Questions and Answers.

Question 1.

Write the perimeter of each figure in the box given below it.

(1)



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Solution:

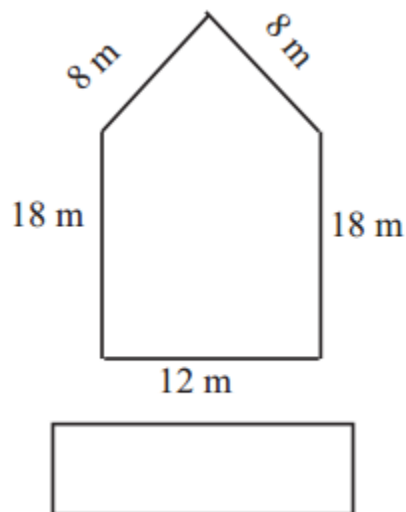
Perimeter [] DABCD

$$= 20 + 16 + 7 + 14$$

$$= 57 \text{ cm}$$

$$\therefore 57 \text{ cm}$$

(2)



Solution:

Perimeter of the figure

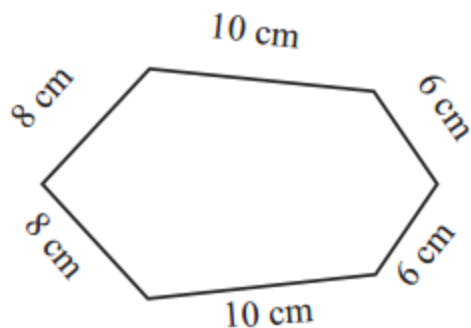
$$= 12 + 18 + 8 + 8 + 18$$

$$= 64\text{m}$$

$$\therefore 64\text{m}$$

(3)

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Solution:

Perimeter of the figure

$$= 10 + 6 + 6 + 10 + 8 + 8$$

$$= 48 \text{ cm}$$

$$\therefore 48 \text{ cm}$$

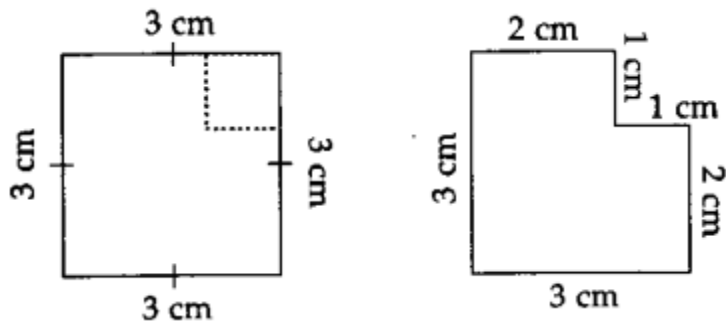
Question 2.

If a square of side 1 cm is cut out of the corner of a larger square with side 3 cm (see the figure), what will be the perimeter of the remaining shape?



Solution:

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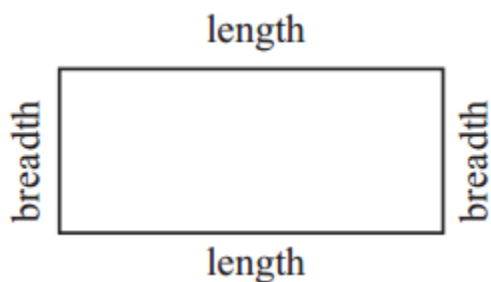
Perimeter

$$= 2 + 3 + 3 + 2 + 1 + 1$$

$$= 12 \text{ cm}$$

$$\therefore 12 \text{ cm}$$

Formula for the perimeter of a rectangle



Perimeter = length + breadth + length + breadth Opposite sides of a rectangle are of the same length.

So, the perimeter of a rectangle

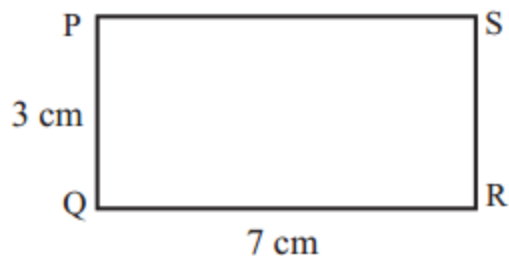
$$= \text{twice the length} + \text{twice the breadth}$$

$$= 2 \times \text{length} + 2 \times \text{breadth}$$

$$\text{Perimeter of a rectangle} = 2 \times \text{length} + 2 \times \text{breadth}$$

Example : The length of the rectangle below is 7 cm and its breadth, 3 cm. Let us find its perimeter.

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Perimeter of rectangle PQRS = $2 \times \text{length} + 2 \times \text{breadth}$

$$= 2 \times 7 + 2 \times 3$$

$$= 14 + 6$$

$$= 20$$

Therefore, the perimeter of the rectangle is 20 cm.

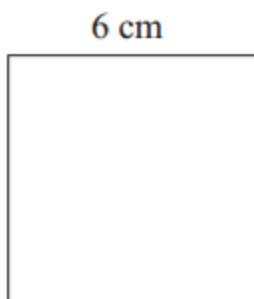
Formula for the perimeter of a square



The lengths of all the sides of a square are equal. Therefore, the perimeter of a square = four times the length of one of its sides.

Perimeter of a square = $4 \times \text{the length of one side}$

Example : The length of one side of a square is 6 cm. Find its perimeter. The perimeter of a square is four times the length of one side.



Perimeter of a square = $4 \times \text{length of one side}$

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$$= 4 \times 6$$

$$= 24$$

Therefore, the perimeter of the square is 24 cm.

Word problems

Example (1) The length of a rectangular park is 100 m, while its width is 80 m. What is its perimeter?

Perimeter of the rectangle = $2 \times \text{length} + 2 \times \text{breadth}$

$$= 2 \times 100 + 2 \times 80$$

$$= 200 + 160$$

$$= 360$$

The perimeter of the rectangular park is 360 m.

Example (2) How much wire will be needed to put a triple fence around a square plot with side 30 m? What will be the total cost of the wire at ₹ 70 per metre ?

To put a single fence around the square plot, we need to find its perimeter.

Perimeter of a square = $4 \times \text{length of one side} = 4 \times 30 = 120$

The perimeter of the square plot is 120 metres. Since the fence is to be a triple fence, we must triple the perimeter.

$120 \times 3 = 360$ m of wire will be needed.

Now let us find out how much the wire will cost. One metre of wire costs ₹ 70.

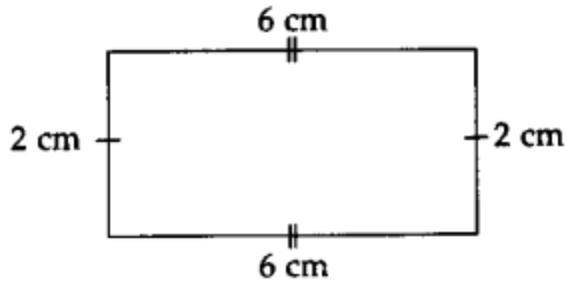
Therefore, the cost of 360 m of wire will be $360 \times 70 = 25,200$.

The total cost of wire for putting a triple fence around the plot will be ₹ 25,200.

Additional Important Questions and Answers

Question 1.

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Solution:

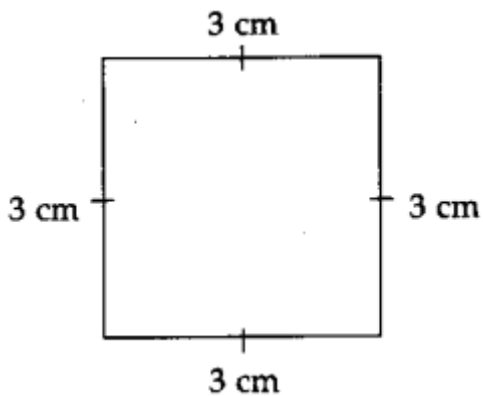
Perimeter of the figure

$$= 2 + 6 + 2 + 6$$

$$= 16 \text{ cm}$$

$$\therefore 16 \text{ cm}$$

Question 2.



Solution:

Perimeter of the figure

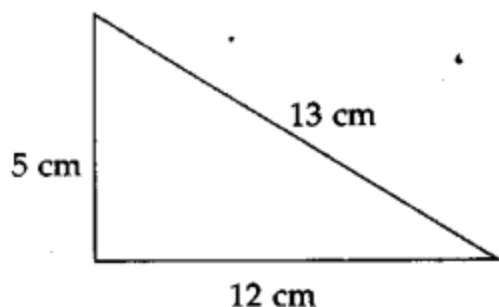
$$= 3 + 3 + 3 + 3$$

$$= 12 \text{ cm}$$

$$\therefore 12 \text{ cm}$$

Question 3.

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Solution:

Perimeter of the figure

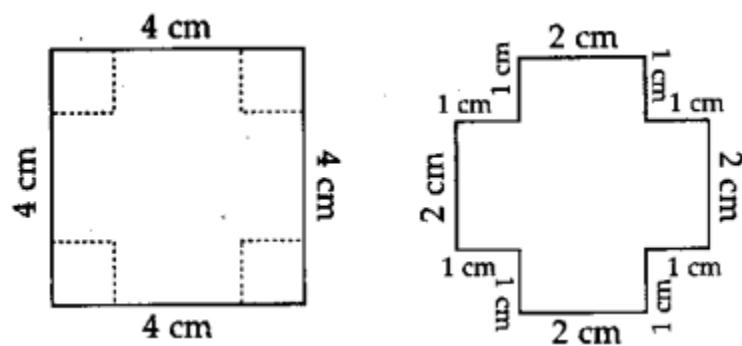
$$= 12 + 13 + 5$$

$$= 30 \text{ cm}$$

$$\therefore 30 \text{ cm}$$

Question 4.

If four squares of side 1 cm are cut out of all the corners of a larger square with side 4 cm (see the figure), what will be the perimeter of the remaining shape?



Solution:

Perimeter

$$= 2 + 1 + 1 + 2 + 1 + 1 + 2 + 1 + 1 + 2 + 1 + 1$$

$$= 16 \text{ cm}$$

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$\therefore 16 \text{ cm}$



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Class 5 Maths

Part 1

- Chapter 1- Roman Numerals (Problem Set 1)
- Chapter 2- Number Work (Problem Set 2)
- Chapter 2- Number Work (Problem Set 3)
- Chapter 2- Number Work (Problem Set 4)
- Chapter 2- Number Work (Problem Set 5)
- Chapter 2- Number Work (Problem Set 6)
- Chapter 3- Addition and Subtraction (Problem Set 7)
- Chapter 3- Addition and Subtraction (Problem Set 8)
- Chapter 3- Addition and Subtraction (Problem Set 9)
- Chapter 3- Addition and Subtraction (Problem Set 10)
- Chapter 3- Addition and Subtraction (Problem Set 11)
- Chapter 3- Addition and Subtraction (Problem Set 12)
- Chapter 3- Addition and Subtraction (Problem Set 13)
- Chapter 4- Multiplication and Division (Problem Set 14)
- Chapter 4- Multiplication and Division (Problem Set 15)
- Chapter 4- Multiplication and Division (Problem Set 16)
- Chapter 5- Fractions (Problem Set 17)
- Chapter 5- Fractions (Problem Set 18)
- Chapter 5- Fractions (Problem Set 19)
- Chapter 5- Fractions (Problem Set 20)
- Chapter 5- Fractions (Problem Set 21)

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- Chapter 5- Fractions (Problem Set 22)
- Chapter 5- Fractions (Problem Set 23)
- Chapter 6- Angles (Problem Set 24)
- Chapter 6- Angles (Problem Set 25)
- Chapter 6- Angles (Problem Set 26)
- Chapter 6- Angles (Problem Set 27)
- Chapter 7- Circles (Problem Set 28)
- Chapter 7- Circles (Problem Set 29)
- Chapter 7- Circles (Problem Set 30)
- Chapter 7- Circles (Problem Set 31)
- Chapter 8- Multiples and Factors (Problem Set 34)
- Chapter 8- Multiples and Factors (Problem Set 35)
- Chapter 9- Decimal Fractions (Problem Set 36)
- Chapter 9- Decimal Fractions (Problem Set 37)
- Chapter 9- Decimal Fractions (Problem Set 38)
- Chapter 9- Decimal Fractions (Problem Set 39)
- Chapter 9- Decimal Fractions (Problem Set 40)
- Chapter 9- Decimal Fractions (Problem Set 41)
- Chapter 9- Decimal Fractions (Problem Set 42)
- Chapter 10- Measuring Time (Problem Set 43)

Part 2.

- Chapter 8- Multiples and Factors (Problem Set 32)
- Chapter 8- Multiples and Factors (Problem Set 33)
- Chapter 10- Measuring Time (Problem Set 44)
- Chapter 10- Measuring Time (Problem Set 45)
- Chapter 11- Problems on Measurement (Problem Set 46)

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- Chapter 11- Problems on Measurement (Problem Set 47)
- Chapter 12- Perimeter and Area (Problem Set 48)
- Chapter 12- Perimeter and Area (Problem Set 49)
- Chapter 12- Perimeter and Area (Problem Set 50)
- Chapter 13- Three Dimensional Objects and Nets (Problem Set 51)
- Chapter 14- Pictographs (Problem Set 52)
- Chapter 15- Patterns (Problem Set 53)
- Chapter 16- Preparation for Algebra (Problem Set 54)
- Chapter 16- Preparation for Algebra (Problem Set 55)
- Chapter 16- Preparation for Algebra (Problem Set 56)

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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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