

Maharashtra Board Solutions Class 7-Maths (Practice Set 46): Chapter 12- Perimeter and Area



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Maharashtra Board Solutions Class 7-Maths (Practice Set 46): 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 46): Chapter 12- Perimeter and Area

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

Question 1.

A page of a calendar is 45 cm long and 26 cm wide. What is its area?

Solution:

Area of page of a calendar = length $\times$ breadth

$$= 45 \times 26$$

$$= 1170 \text{ sq. cm.}$$

$\therefore$ The area of the page of the calendar is 1170 sq. cm.

Question 2.

What is the area of a triangle with base 4.8 cm and height 3.6 cm?

Solution:

Area of triangle = $\frac{1}{2} \times \text{base} \times \text{height}$

$$= \frac{1}{2} \times 4.8 \times 3.6$$

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$$= 12 \times 17.28$$

$$= 8.64 \text{ sq. cm.}$$

∴ The area of the triangle is 8.64 sq. cm.

Question 3.

What is the value of a rectangular plot of land 75.5 m long and 30.5 m broad at the rate of Rs 1000 per square metre?

Solution:

Area of the rectangular plot = length $\times$ breadth

$$= 75.5 \times 30.5$$

$$= 2302.75 \text{ sq. m.}$$

Value of the plot = area of the plot $\times$ rate per square metre = 2302.75×1000

$$= \text{Rs } 230275$$

∴ The value of the plot is Rs 23,02,750.

Question 4.

A rectangular hall is 12 m long and 6 m broad. Its flooring is to be made of square tiles of side 30 cm. How many tiles will fit in the entire hall? How many would be required if tiles of side 15 cm were used?

Solution:

Area of the rectangular hall = length $\times$ breadth

$$= 12 \times 6$$

$$= 72 \text{ sq. m.}$$

Side of the square shaped tile = 30 cm

$$= 30100 \text{ m ...}[1\text{cm} = 1100\text{m}]$$

$$= 310 \text{ m}$$

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Area of the tile = (side)²

$$= (310)^2$$

$$= 9100 \text{ sq.m}$$

Number of tiles required = Area of the hall ÷ Area of each tile

$$= 72 \div 9100$$

$$= 72 \times 1009$$

$$= 800$$

∴ 800 square shaped tiles of 30 cm side will be required.

If the side of the square is reduced to half, its area will become 14 times the original.

i. e. number of tiles required will become 4 times the original tiles.

∴ Number of tiles required = 4 × number of tiles of side 30 cm

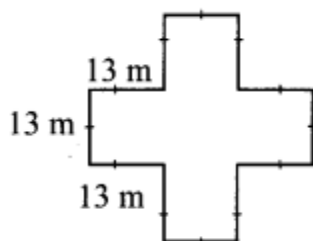
$$= 4 \times 800$$

$$= 3200$$

∴ 3200 square shaped tiles of 15 cm side will be required.

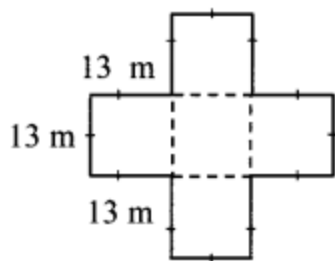
Question 5.

Find the perimeter and area of a garden with measures as shown in the figure alongside.



Solution:

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The boundary of the garden is made of 12 sides each of length 13 m.

Perimeter of the garden = sum of the lengths of all sides

$$= 12 \times 13$$

$$= 156 \text{ m}$$

The garden in the given figure can be divided into 5 squares each of side 13 m.

$\therefore$ Area of the garden = 5 $\times$ area of each square part

$$= 5 \times (\text{side})^2$$

$$= 5 \times (13)^2$$

$$= 5 \times 169$$

$$= 845 \text{ sq. m.}$$

$\therefore$ The perimeter and area of a garden are 156 m and 845 sq. m. respectively.



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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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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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