

Maharashtra Board Solutions Class 8-Maths

(Practice Set 15.1): Chapter 15- Area



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Maharashtra Board Solutions Class 8-Maths

(Practice Set 15.1): Chapter 15- Area

Class 8: Maths Chapter 15 solutions. Complete Class 8 Maths Chapter 15 Notes.

Maharashtra Board Solutions Class 8-Maths (Practice Set 15.1): Chapter 15- Area

Maharashtra Board 8th Maths Chapter 15, Class 8 Maths Chapter 15 solutions

Question 1.

If base of a parallelogram is 18 cm and its height is 11 cm, find its area.

Solution:

Given, base = 18 cm, height = 11 cm

Area of a parallelogram = base $\times$ height

$$= 18 \times 11$$

$$= 198 \text{ sq.cm}$$

$\therefore$ Area of the parallelogram is 198 sq.cm.

Question 2.

If area of a parallelogram is 29.6 sq. cm and its base is 8 cm, find its height.

Solution:

Given, area of a parallelogram = 29.6 sq.cm,

base = 8 cm

Area of a parallelogram = base $\times$ height

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$$\therefore 29.6 = 8 \times \text{height}$$

$$\therefore \text{height} = 29.68 = 3.7 \text{ cm}$$

$\therefore$ Height of the parallelogram is 3.7 cm.

Question 3.

Area of a parallelogram is 83.2 sq.cm. If its height is 6.4 cm, find the length of its base.

Solution:

Given, area of a parallelogram = 83.2 sq.cm, height = 6.4 cm

Area of a parallelogram = base $\times$ height

$$\therefore 83.2 = \text{base} \times 6.4$$

$$\therefore \text{base} = 83.26.4 = 13 \text{ cm}$$

$\therefore$ The length of the base of the parallelogram is 13 cm.

Intext Questions and Activities

Question 1.

Draw a big enough parallelogram ABCD on a paper as shown in the figure.

Draw perpendicular AE on side BC.

Cut the right angled $\triangle AEB$. Join it with the remaining part of $\square ABCD$ as shown in the figure.

The new figure formed is a rectangle.

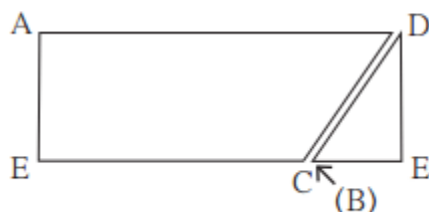
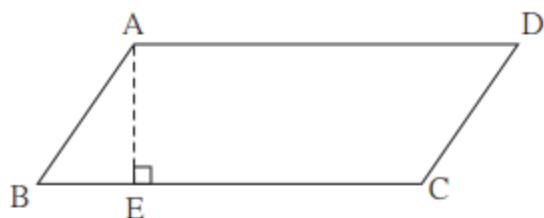
The rectangle is formed from the parallelogram.

So, areas of both the figures are equal.

Base of parallelogram is one side (length) of the rectangle and its height is the other side (breadth) of the rectangle.

$\therefore$ Area of a parallelogram = base $\times$ height (Textbook pg. no.94)

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Solution:

Draw a big enough parallelogram ABCD on a paper as shown in the figure.

Draw perpendicular AE on side BC.

Cut the right angled $\triangle AEB$. Join it with the remaining part of $\square ABCD$ as shown in the figure.

The new figure formed is a rectangle.

The rectangle is formed from the parallelogram.

So, areas of both the figures are equal.

Base of parallelogram is one side (length) of the rectangle and its height is the other side (breadth) of the rectangle.

$\therefore$ Area of a parallelogram = Area of a rectangle = length $\times$ breadth = base $\times$ height



Maharashtra Board Solutions

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- Chapter 1- Rational and Irrational Numbers (Practice Set 1.2)
- Chapter 1- Rational and Irrational Numbers (Practice Set 1.3)
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- Chapter 16- Surface Area and Volume (Practice Set 16.2)
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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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