

Maharashtra Board Solutions Class 9-Maths

(Part 1): Chapter 1.1- Sets

BOOK SOLUTIONS
CLASS 9
MATHS

CHAPTER 1.1
Sets



Maharashtra Board Solutions→

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Maharashtra Board Solutions Class 9-Maths

(Part 1): Chapter 1.1- Sets

Class 9: Maths Chapter 1.1 solutions. Complete Class 9 Maths Chapter 1.1 Notes.

Maharashtra Board Solutions Class 9-Maths (Part 1): Chapter 1.1- Sets

Maharashtra Board 9th Maths Chapter 1.1, Class 9 Maths Chapter 1.1 solutions

Question 1.

Write the following sets in roster form.

- i. Set of even natural numbers
- ii. Set of even prime numbers from 1 to 50
- iii. Set of negative integers
- iv. Seven basic sounds of a sargam (sur)

Answer:

- i. $A = \{ 2, 4, 6, 8, \dots \}$
- ii. 2 is the only even prime number
 $\therefore B = \{ 2 \}$
- iii. $C = \{ -1, -2, -3, \dots \}$
- iv. $D = \{ \text{sa, re, ga, ma, pa, dha, ni} \}$

Question 2.

Write the following symbolic statements in words.

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- i. $43 \in \mathbb{Q}$
- ii. $-2 \notin \mathbb{N}$
- iii. $P = \{p \mid p \text{ is an odd number}\}$

Answer:

- i. 43 is an element of set $\mathbb{Q}$.
- ii. -2 is not an element of set $\mathbb{N}$.
- iii. Set P is a set of all p 's such that p is an odd number.

Question 3.

Write any two sets by listing method and by rule method.

Answer:

- i. A is a set of even natural numbers less than 10.

Listing method: $A = \{2, 4, 6, 8\}$

Rule method: $A = \{x \mid x = 2n, n \in \mathbb{N}, n < 5\}$

- ii. B is a set of letters of the word 'SCIENCE'. Listing method : $B = \{S, C, I, E, N\}$

Rule method: $B = \{x \mid x \text{ is a letter of the word 'SCIENCE'}\}$

Question 4.

Write the following sets using listing method.

- i. All months in the Indian solar year.
- ii. Letters in the word 'COMPLEMENT'.
- iii. Set of human sensory organs.
- iv. Set of prime numbers from 1 to 20.
- v. Names of continents of the world.

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Answer:

i. $A = \{\text{Chaitra, Vaishakh, Jyestha, Aashadha, Shravana, Bhadrapada, Ashwina, Kartika, Margashirsha, Paush, Magha, Falguna}\}$

ii. $X = \{\text{C, O, M, P, L, E, N, T}\}$

iii. $Y = \{\text{Nose, Ears, Eyes, Tongue, Skin}\}$

iv. $Z = \{2, 3, 5, 7, 11, 13, 17, 19\}$

v. $E = \{\text{Asia, Africa, Europe, Australia, Antarctica, South America, North America}\}$

Question 5.

Write the following sets using rule method.

i. $A = \{1, 4, 9, 16, 25, 36, 49, 64, 81, 100\}$

ii. $B = \{6, 12, 18, 24, 30, 36, 42, 48\}$

iii. $C = \{\text{S, M, I, L, E}\}$

iv. $D = \{\text{Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday}\}$

v. $X = \{\text{a, e, t}\}$

Answer:

i. $A = \{x \mid x = n^2, n \in \mathbb{N}, n < 10\}$

ii. $B = \{x \mid x = 6n, n \in \mathbb{N}, n < 9\}$

iii. $C = \{y \mid y \text{ is a letter of the word 'SMILE'}\}$ [Other possible words: 'SLIME', 'MILES', 'MISSILE' etc.]

iv. $D = \{z \mid z \text{ is a day of the week}\}$

v. $X = \{y \mid y \text{ is a letter of the word 'eat'}\}$

[Other possible words: 'tea' or 'ate']

Question 1.

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Fill in the blanks given in the following table. (Textbook pg. no. 3)

Answer:

Listing or Roster Method	Rule Method
$A = \{2, 4, 6, 8, 10, 12, 14\}$	$A = \{x \mid x \text{ is an even natural number less than } 15\}$
$B = \{4, 9, 16\}$	$B = \{x \mid x \text{ is a perfect square number between } 1 \text{ to } 20\}$
$C = \{a, e, i, o, u\}$	$C = \{x \mid x \text{ is a vowel of English alphabet}\}$
$D = \{\text{violet, indigo, blue, green, yellow, orange, red}\}$	$D = \{y \mid y \text{ is a colour in the rainbow}\}$
$P = \{-2, -1, 0, 1, 2\}$	$P = \{x \mid x \text{ is an integer and } -3 < x < 3\}$
$M = \{1, 8, 27, 64, 125, \dots\}$	$M = \{x \mid x \text{ is a cube of a positive integer}\}$



Maharashtra Board Solutions

Class 9 Maths

Part 1

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- Chapter 1.3- Sets
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- Chapter 7.5- Statistics

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

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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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