

Maharashtra Board Solutions Class 6-Maths (Practice Set 13): Chapter 4- Operations on Fractions



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Maharashtra Board Solutions Class 6-Maths (Practice Set 13): Chapter 4- Operations on Fractions

Class 6: Maths Chapter 4 solutions. Complete Class 6 Maths Chapter 4 Notes.

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Maharashtra Board 6th Maths Chapter 4, Class 6 Maths Chapter 4 solutions

Question 1.

Write the reciprocals of the following numbers:

1. 7
2. 113
3. 513
4. 2
5. 67

Solution:

1. 17
2. 311
3. 135
4. 12
5. 76

Question 2.

Carry out the following Divisions:

- i. $23 \div 14$

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ii. $59 \div 32$

iii. $37 \div 511$

iv. $1112 \div 47$

Solution:

i. $23 \div 14$

$$\frac{2}{3} \div \frac{1}{4} = \frac{2}{3} \times \frac{4}{1} = \frac{2 \times 4}{3 \times 1} = \frac{8}{3}$$

ii. $59 \div 32$

$$\frac{5}{9} \div \frac{3}{2} = \frac{5}{9} \times \frac{2}{3} = \frac{5 \times 2}{9 \times 3} = \frac{10}{27}$$

iii. $37 \div 511$

$$\frac{3}{7} \div \frac{5}{11} = \frac{3}{7} \times \frac{11}{5} = \frac{3 \times 11}{7 \times 5} = \frac{33}{35}$$

iv. $1112 \div 47$

$$\frac{11}{12} \div \frac{4}{7} = \frac{11}{12} \times \frac{7}{4} = \frac{11 \times 7}{12 \times 4} = \frac{77}{48}$$

Question 3.

There were 420 students participating in the Swachh Bharat Campaign. They cleaned 4275 part of the town, Sevagram. What part of Sevagram did each student clean if the work was equally shared by all?

Solution:

Total number of students = 420

Part of town cleaned by all the students = 4275

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∴ Part of town cleaned by one student

$$= \frac{42}{75} \div 420 = \frac{42}{75} \times \frac{1}{420} = \frac{1}{75} \times \frac{42}{420} = \frac{1}{75} \times \frac{1}{10} = \frac{1}{750}$$

∴ Part of town cleaned by one student is 1750

Questions and Activities

Question 1.

Ramanujan's Magic square. (Textbook pg. no. 28)

22	12	18	87
88	17	9	25
10	24	89	16
19	86	23	11

- Add the four numbers in the rows, the columns and along the diagonals of this square.
- What is the sum?
- Is it the same every time?
- What is the peculiarity?
- Look at the numbers in the first row, 22 – 12 – 1887. Find out why this date is special.

Obtain and read a biography of the great Indian mathematician Srinivasa Ramanujan.

Solution:

Sum of the numbers in each row:

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i. $22 + 12 + 18 + 87 = 139$

ii. $88 + 17 + 9 + 25 = 139$

iii. $10 + 24 + 89 + 16 = 139$

iv. $19 + 86 + 23 + 11 = 139$

Sum of the numbers along the diagonals:

i. $22 + 17 + 89 + 11 = 139$

ii. $87 + 9 + 24 + 19 = 139$

Sum of the numbers in each column:

i. $22 + 88 + 10 + 19 = 139$

ii. $12 + 17 + 24 + 86 = 139$

iii. $18 + 9 + 89 + 23 = 139$

iv. $87 + 25 + 16 + 11 = 139$

∴ We observe that the sum of the numbers in each of the rows, the columns and along each diagonal remains the same every time. The numbers in the first row 22 – 12 – 1887 is the birth date of Srinivasa Ramanujan.



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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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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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