

Maharashtra Board Solutions Class 6-Maths (Practice Set 11): Chapter 4- Operations on Fractions



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Maharashtra Board Solutions Class 6-Maths (Practice Set 11): Chapter 4- Operations on Fractions

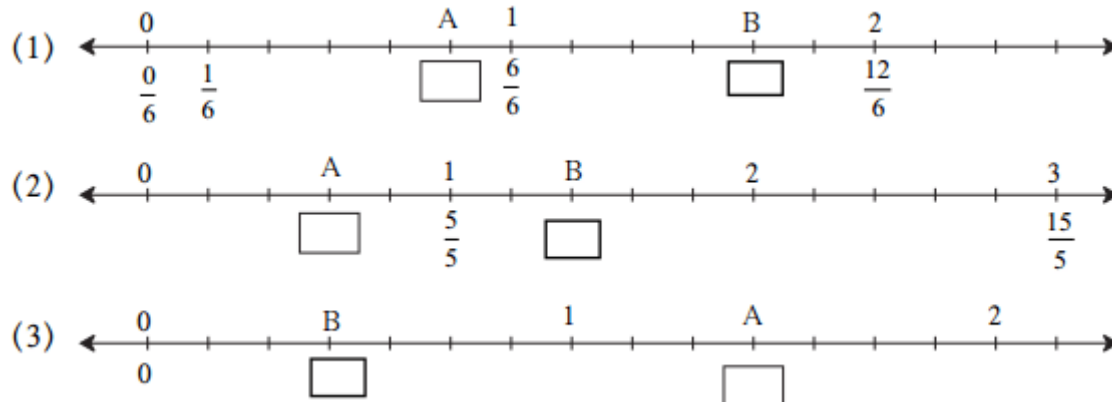
Class 6: Maths Chapter 4 solutions. Complete Class 6 Maths Chapter 4 Notes.

Maharashtra Board Solutions Class 6-Maths (Practice Set 11): Chapter 4- Operations on Fractions

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

Question 11.

What fractions do the points A and B show on the number lines below?



Solution:

(1) Each unit is divided in 6 parts

A is 5th division from 0

$\therefore A = \frac{5}{6}$

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B is 10th division from 0

$$\therefore B=106$$

(2) Each unit is divided in 5 parts

A is 3rd division from 0

$$\therefore A=35$$

B is 7th division from 0

$$\therefore B=75$$

(3) Each unit is divided in 7 parts

A is 10th division from 0

$$\therefore A=107$$

B is 3rd division from 0

$$\therefore B=37$$

Question 2.

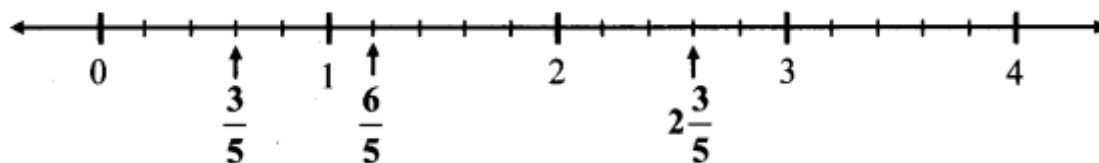
Show the following fractions on the number line:

i. $\frac{35}{5}, \frac{65}{5}, \frac{235}{5}$

ii. $\frac{34}{5}, \frac{54}{5}, \frac{214}{5}$

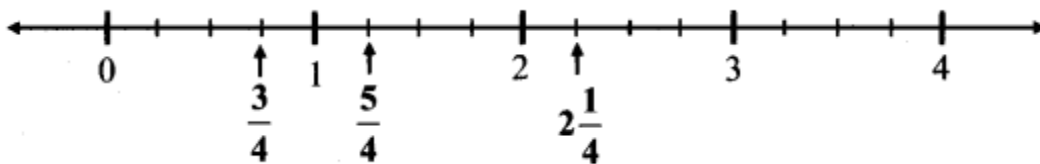
Solution:

i. $\frac{35}{5}, \frac{65}{5}, \frac{235}{5}$



ii. $\frac{34}{5}, \frac{54}{5}, \frac{214}{5}$

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Questions and Activities

Question 1.

If we want to show the fractions $\frac{3}{10}, \frac{9}{20}, \frac{19}{40}$ on the number line, how big should the unit be? (Textbook pg. no. 24)

Solution:

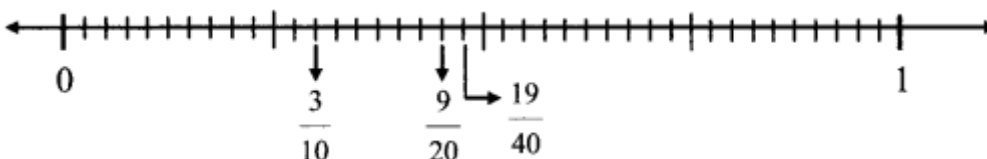
The denominators of the given fractions are not equal.

The numbers in the denominators 10, 20 and 40 have common multiple 40.

∴ Making the denominators equal, we get

$$\frac{3}{10} = \frac{3 \times 4}{10 \times 4} = \frac{12}{40}; \quad \frac{9}{20} = \frac{9 \times 2}{20 \times 2} = \frac{18}{40}; \quad \frac{19}{40}$$

∴ To represent these fractions on the numbers line, each main unit should be divided into 40 equal sub-units.



Therefore,

$\frac{3}{10} = \frac{12}{40}$ is represented on 12th mark from 0.

$\frac{9}{20} = \frac{18}{40}$ is represented on 18th mark from 0 and

$\frac{19}{40}$ is represented on 19 mark from 0.

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- Chapter 2- Angles (Practice Set 3)
- Chapter 3- Integers (Practice Set 4)
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- Chapter 13- Profit-Loss (Practice Set 33)
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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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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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