

Maharashtra Board Solutions Class 6-Maths

(Practice Set 9): Chapter 4- Operations on Fractions



For any clarifications or questions you can write to info@indcareer.com

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Maharashtra Board Solutions Class 6-Maths (Practice Set 9): 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 9): Chapter 4- Operations on Fractions

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

Question 1.

Convert into improper fractions:

i. 725

ii. 516

iii. 434

iv. 259

v. 157

Solution:

i. 725

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$$7\frac{2}{5} = 7 + \frac{2}{5} = \frac{7}{1} + \frac{2}{5}$$
$$= \frac{7 \times 5}{1 \times 5} + \frac{2}{5} = \frac{35}{5} + \frac{2}{5} = \frac{35+2}{5}$$

$$7\frac{2}{5} = \frac{37}{5}$$

ii. 516

$$5\frac{1}{6} = 5 + \frac{1}{6} = \frac{5}{1} + \frac{1}{6}$$
$$= \frac{5 \times 6}{1 \times 6} + \frac{1}{6} = \frac{30}{6} + \frac{1}{6} = \frac{30+1}{6}$$

$$5\frac{1}{6} = \frac{31}{6}$$

iii. 434

$$4\frac{3}{4} = 4 + \frac{3}{4} = \frac{4}{1} + \frac{3}{4}$$
$$= \frac{4 \times 4}{1 \times 4} + \frac{3}{4} = \frac{16}{4} + \frac{3}{4} = \frac{16+3}{4}$$

$$4\frac{3}{4} = \frac{19}{4}$$

iv. 259

$$2\frac{5}{9} = 2 + \frac{5}{9} = \frac{2}{1} + \frac{5}{9}$$
$$= \frac{2 \times 9}{1 \times 9} + \frac{5}{9} = \frac{18}{9} + \frac{5}{9} = \frac{18+5}{9}$$

$$2\frac{5}{9} = \frac{23}{9}$$

v. 157

$$\begin{aligned}1\frac{5}{7} &= 1 + \frac{5}{7} = \frac{1}{1} + \frac{5}{7} \\&= \frac{1 \times 7}{1 \times 7} + \frac{5}{7} = \frac{7}{7} + \frac{5}{7} = \frac{7+5}{7} \\1\frac{5}{7} &= \frac{12}{7}\end{aligned}$$

Question 2.

Convert into mixed numbers:

i. 307

ii. 74

iii. 1512

iv. 118

v. 214

v. 207

Solution:

i. 307

$$\begin{aligned}\frac{30}{7} &= 30 \div 7 & \begin{array}{r} 4 \\ 7 \overline{)30} \\ -28 \\ \hline 02 \end{array} \\ \frac{30}{7} &= 4\frac{2}{7}\end{aligned}$$

ii. 74

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$$\frac{7}{4} = 7 \div 4$$

$$\begin{array}{r} 1 \\ 4 \overline{) 7} \\ \underline{-4} \\ 03 \end{array}$$

$$\frac{7}{4} = 1\frac{3}{4}$$

iii. 1512

$$\frac{15}{12} = 15 \div 12$$

$$\begin{array}{r} 1 \\ 12 \overline{) 15} \\ \underline{-12} \\ 03 \end{array}$$

$$\frac{15}{12} = 1\frac{3}{12} \text{ or } 1\frac{1}{4}$$

iv. 118

$$\frac{11}{8} = 11 \div 8$$

$$\begin{array}{r} 1 \\ 8 \overline{) 11} \\ \underline{-8} \\ 03 \end{array}$$

$$\frac{11}{8} = 1\frac{3}{8}$$

v. 214

$$\frac{21}{4} = 21 \div 4$$

$$\begin{array}{r} 5 \\ 4 \overline{) 21} \\ \underline{-20} \\ 01 \end{array}$$

$$\frac{21}{4} = 5\frac{1}{4}$$

v. 207

$$\frac{20}{7} = 20 \div 7$$

$$\begin{array}{r} 2 \\ 7 \overline{)20} \\ \underline{-14} \\ 06 \end{array}$$

$$\frac{20}{7} = 2\frac{6}{7}$$

Question 3.

Write the following examples using fraction:

i. If 9 kg rice is shared among 5 people, how many kilograms of rice does each person get?

ii. To make 5 shirts of the same size, 11 meters of cloth is needed. How much cloth is needed for one shirt?

Solution:

i. Total quantity of rice = 9 kg

Number of people = 5

∴ Kilograms of rice received by each person = 95

∴ Each person will get 95 kg of rice.

ii. Total meters of cloth = 11 meters

Number of shirts to be made = 5

Meters of cloth needed to make 1 shirt = 115

∴ Cloth needed to make 1 shirt is 115 meters.



Maharashtra Board Solutions

Class 6 Maths

- Chapter 1- Basic Concepts in Geometry (Practice Set 1)
- Chapter 2- Angles (Practice Set 2)
- Chapter 2- Angles (Practice Set 3)
- Chapter 3- Integers (Practice Set 4)
- Chapter 3- Integers (Practice Set 5)
- Chapter 3- Integers (Practice Set 6)
- Chapter 3- Integers (Practice Set 7)
- Chapter 3- Integers (Practice Set 8)
- Chapter 4- Operations on Fractions (Practice Set 9)
- Chapter 4- Operations on Fractions (Practice Set 10)
- Chapter 4- Operations on Fractions (Practice Set 11)
- Chapter 4- Operations on Fractions (Practice Set 12)
- Chapter 4- Operations on Fractions (Practice Set 13)
- Chapter 5- Decimal Fractions (Practice Set 14)
- Chapter 5- Decimal Fractions (Practice Set 15)
- Chapter 5- Decimal Fractions (Practice Set 16)
- Chapter 5- Decimal Fractions (Practice Set 17)
- Chapter 6- Bar Graphs (Practice Set 18)
- Chapter 6- Bar Graphs (Practice Set 19)
- Chapter 7- Symmetry (Practice Set 20)
- Chapter 7- Symmetry (Practice Set 21)
- Chapter 8- Divisibility (Practice Set 22)

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- Chapter 9- HCF-LCM (Practice Set 23)
- Chapter 9- HCF-LCM (Practice Set 24)
- Chapter 9- HCF-LCM (Practice Set 25)
- Chapter 10- Equations (Practice Set 26)
- Chapter 10- Equations (Practice Set 27)
- Chapter 11- Ratio-Proportion (Practice Set 28)
- Chapter 11- Ratio-Proportion (Practice Set 29)
- Chapter 12- Percentage (Practice Set 30)
- Chapter 13- Profit-Loss (Practice Set 31)
- Chapter 13- Profit-Loss (Practice Set 32)
- Chapter 13- Profit-Loss (Practice Set 33)
- Chapter 13- Profit-Loss (Practice Set 34)
- Chapter 14- Banks and Simple Interest (Practice Set 35)
- Chapter 15- Triangles and their Properties (Practice Set 36)
- Chapter 16- Quadrilaterals (Practice Set 37)
- Chapter 16- Quadrilaterals (Practice Set 38)
- Chapter 17- Geometrical Constructions (Practice Set 39)
- Chapter 17- Geometrical Constructions (Practice Set 40)
- Chapter 18- Three Dimensional Shapes (Practice Set 41)

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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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