

Maharashtra Board Solutions Class 5-Maths

(Problem Set 21) - Part 1: Chapter 5-

Fractions



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

Postal Address

IndCareer.com, 52, Shilpa Nagar, Somalwada Nagpur - 440015
Maharashtra, India

WhatsApp: +91 9561 204 888, **Website:** <https://www.indcareer.com>

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Maharashtra Board Solutions Class 5-Maths

(Problem Set 21) - Part 1: Chapter 5-

Fractions

Class 5: Maths Chapter 5 solutions. Complete Class 5 Maths Chapter 5 Notes.

Maharashtra Board Solutions Class 5-Maths (Problem Set 21) - Part 1: Chapter 5- Fractions

Maharashtra Board 5th Maths Chapter 5, Class 5 Maths Chapter 5 solutions

Important Questions and Answers.

Question 1.

Subtract the following.

(1) $5\frac{1}{7} - 1\frac{3}{7}$

Answer:

$$5\frac{1}{7} - 1\frac{3}{7} = \frac{5-1}{7} = \frac{4}{7}$$

(2) $5\frac{3}{8} - 3\frac{1}{8}$

Answer:

$$5\frac{3}{8} - 3\frac{1}{8} = \frac{5-3}{8} = \frac{2}{8}$$

(3) $7\frac{9}{10} - 2\frac{9}{10}$

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Answer:

$$\frac{7}{9} - \frac{2}{9} = \frac{7-2}{9} = \frac{5}{9}$$

(4) 811-511

Answer:

$$\frac{8}{11} - \frac{5}{11} = \frac{8-5}{11} = \frac{3}{11}$$

(5) 913-413

Answer:

$$\frac{9}{13} - \frac{4}{13} = \frac{9-4}{13} = \frac{5}{13}$$

(6) 710-310

Answer:

$$\frac{7}{10} - \frac{3}{10} = \frac{7-3}{10} = \frac{4}{10}$$

(7) 912-212

Answer:

$$\frac{9}{12} - \frac{2}{12} = \frac{9-2}{12} = \frac{7}{12}$$

(8) 1015-315

Answer:

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$$\frac{10}{15} - \frac{3}{15} = \frac{10-3}{15} = \frac{7}{15}$$

Question 2.

710 of a wall is to be painted. Ramu has painted 410 of it. How much more needs to be painted?

Solution:

To be painted – painted

$$\frac{7}{10} - \frac{4}{10} = \frac{7-4}{10} = \frac{3}{10}$$

Answer:

310 more needs to be painted.

Addition and subtraction of unlike fractions

Example (1) Add : $\frac{2}{3} + \frac{1}{6}$

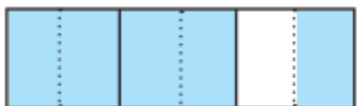


First let us show the fraction $\frac{2}{3}$ by coloring two of the three equal parts on a strip.

You have learnt to add and to subtract fractions with common denominators. Here, we have to add the fraction $\frac{1}{6}$ to the fraction $\frac{2}{3}$.



So let us divide each part on this strip into two equal parts. $\frac{4}{6}$ is a fraction equivalent to $\frac{2}{3}$. Now, as $\frac{1}{6}$ is to be added to $\frac{4}{6}$, we shall colour one more of the six parts on the strip. Now, the total coloured part is $\frac{5}{6}$.



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Therefore, $\frac{4}{6} + \frac{1}{6} = \frac{4+1}{6} = \frac{5}{6}$.

That is, $\frac{2}{3} + \frac{1}{6} = \frac{5}{6}$.

Example (2) Add : $12+25$

Here, the smallest common multiple of the two denominators is 10. So, we shall change the denominator of both fractions to 10.

$$\begin{aligned}\frac{1}{2} + \frac{2}{5} &= \frac{1 \times 5}{2 \times 5} + \frac{2 \times 2}{5 \times 2} \\ &= \frac{5}{10} + \frac{4}{10} \\ &= \frac{5+4}{10} = \frac{9}{10}\end{aligned}$$

Example (3) Add : $38+116$

Here, 16 is twice 8. So, we shall change the denominator of both fractions to 16.

$$\begin{aligned}\frac{3}{8} + \frac{1}{16} &= \frac{3 \times 2}{8 \times 2} + \frac{1}{16} \\ &= \frac{6}{16} + \frac{1}{16} \\ &= \frac{6+1}{16} = \frac{7}{16}\end{aligned}$$

Example (4) Subtract : $34-58$

Let us make 8 the common denominator of the given fractions.

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$$\begin{aligned}\frac{3}{4} - \frac{5}{8} &= \frac{3 \times 2}{4 \times 2} - \frac{5}{8} \\ &= \frac{6}{8} - \frac{5}{8} \\ &= \frac{6-5}{8} \\ &= \frac{1}{8}\end{aligned}$$

Example (5) Subtract : 45-23

The smallest common multiple of the denominators is 15. So, we shall change the denominator of both fractions to 15.

$$\begin{aligned}\frac{4}{5} - \frac{2}{3} &= \frac{4 \times 3}{5 \times 3} - \frac{2 \times 5}{3 \times 5} \\ &= \frac{12}{15} - \frac{10}{15} \\ &= \frac{12-10}{15} \\ &= \frac{2}{15}\end{aligned}$$

Additional Important Questions and Answers

(1) 914-314

Answer:

$$\frac{9}{14} - \frac{3}{14} = \frac{9-3}{14} = \frac{6}{14}$$

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(2) 56-36

Answer:

$$\frac{5}{6} - \frac{3}{6} = \frac{5-3}{6} = \frac{2}{6}$$

(3) 916-516

Answer:

$$\frac{9}{16} - \frac{5}{16} = \frac{9-5}{16} = \frac{4}{16}$$

(4) 78-38-18

Answer:

$$\frac{7}{8} - \frac{3}{8} - \frac{1}{8} = \frac{7-3-1}{8} = \frac{3}{8}$$

(5) 79 part of the work done by Neha and Supriya together. 59 part of this work was done by Neha. How much work done by Supriya?

Solution:

Total work done – work done by Neha = work done by Supriya

$$\frac{7}{9} - \frac{5}{9} = \frac{7-5}{9} = \frac{2}{9}$$

Answer:

29 work done by Supriya

(6) Mr. Sharma is 149 m tall. Mrs. Sharma is 49 shorter than him. What is Mrs. Sharma's height?

Solution:

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Mrs. Sharma's height

$$\frac{14}{9} - \frac{4}{9} = \frac{14-4}{9}$$
$$= \frac{10}{9}$$

Answer:

Mrs. Sharma's height = 109



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Class 5 Maths

Part 1

- Chapter 1- Roman Numerals (Problem Set 1)
- Chapter 2- Number Work (Problem Set 2)
- Chapter 2- Number Work (Problem Set 3)
- Chapter 2- Number Work (Problem Set 4)
- Chapter 2- Number Work (Problem Set 5)
- Chapter 2- Number Work (Problem Set 6)
- Chapter 3- Addition and Subtraction (Problem Set 7)
- Chapter 3- Addition and Subtraction (Problem Set 8)
- Chapter 3- Addition and Subtraction (Problem Set 9)
- Chapter 3- Addition and Subtraction (Problem Set 10)
- Chapter 3- Addition and Subtraction (Problem Set 11)
- Chapter 3- Addition and Subtraction (Problem Set 12)
- Chapter 3- Addition and Subtraction (Problem Set 13)
- Chapter 4- Multiplication and Division (Problem Set 14)
- Chapter 4- Multiplication and Division (Problem Set 15)
- Chapter 4- Multiplication and Division (Problem Set 16)
- Chapter 5- Fractions (Problem Set 17)
- Chapter 5- Fractions (Problem Set 18)
- Chapter 5- Fractions (Problem Set 19)
- Chapter 5- Fractions (Problem Set 20)
- Chapter 5- Fractions (Problem Set 21)

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- Chapter 5- Fractions (Problem Set 22)
- Chapter 5- Fractions (Problem Set 23)
- Chapter 6- Angles (Problem Set 24)
- Chapter 6- Angles (Problem Set 25)
- Chapter 6- Angles (Problem Set 26)
- Chapter 6- Angles (Problem Set 27)
- Chapter 7- Circles (Problem Set 28)
- Chapter 7- Circles (Problem Set 29)
- Chapter 7- Circles (Problem Set 30)
- Chapter 7- Circles (Problem Set 31)
- Chapter 8- Multiples and Factors (Problem Set 34)
- Chapter 8- Multiples and Factors (Problem Set 35)
- Chapter 9- Decimal Fractions (Problem Set 36)
- Chapter 9- Decimal Fractions (Problem Set 37)
- Chapter 9- Decimal Fractions (Problem Set 38)
- Chapter 9- Decimal Fractions (Problem Set 39)
- Chapter 9- Decimal Fractions (Problem Set 40)
- Chapter 9- Decimal Fractions (Problem Set 41)
- Chapter 9- Decimal Fractions (Problem Set 42)
- Chapter 10- Measuring Time (Problem Set 43)

Part 2.

- Chapter 8- Multiples and Factors (Problem Set 32)
- Chapter 8- Multiples and Factors (Problem Set 33)
- Chapter 10- Measuring Time (Problem Set 44)
- Chapter 10- Measuring Time (Problem Set 45)
- Chapter 11- Problems on Measurement (Problem Set 46)

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- Chapter 11- Problems on Measurement (Problem Set 47)
- Chapter 12- Perimeter and Area (Problem Set 48)
- Chapter 12- Perimeter and Area (Problem Set 49)
- Chapter 12- Perimeter and Area (Problem Set 50)
- Chapter 13- Three Dimensional Objects and Nets (Problem Set 51)
- Chapter 14- Pictographs (Problem Set 52)
- Chapter 15- Patterns (Problem Set 53)
- Chapter 16- Preparation for Algebra (Problem Set 54)
- Chapter 16- Preparation for Algebra (Problem Set 55)
- Chapter 16- Preparation for Algebra (Problem Set 56)

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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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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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Somalwada
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