

Maharashtra Board Solutions Class 5-Maths

(Problem Set 54) - Part 2: Chapter 16-

Preparation for Algebra

BOOK SOLUTIONS
CLASS 5
MATHS (PART 2)

CHAPTER 16
Preparation for Algebra






Maharashtra Board Solutions→

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

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Maharashtra Board Solutions Class 5-Maths

(Problem Set 54) - Part 2: Chapter 16-

Preparation for Algebra

Class 5: Maths Chapter 16 solutions. Complete Class 5 Maths Chapter 16 Notes.

Maharashtra Board Solutions Class 5-Maths (Problem Set 54) - Part 2: Chapter 16- Preparation for Algebra

Maharashtra Board 5th Maths Chapter 16, Class 5 Maths Chapter 16 solutions

Important Questions and Answers.

Question 1.

Using brackets, write three pairs of numbers whose sum is 13. Use them to write three equalities.

Answer:

$(7 + 6), (8 + 5), (9 + 4)$. since $7 + 6$

$= 13, 8 + 5$

$= 13, 9 + 4$

$= 13.$

$(7 + 6)$

$= (8 + 5), (7 + 6)$

$= (9 + 4) \text{ or } (8 + 5)$

$= (9 + 4).$

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Question 2.

Find four pairs of numbers, one for each of addition, subtraction, multiplication and division that make the number 18. Write the equalities for each of them.

Answer:

$(9 + 9), (20 - 2), (9 \times 2), (36 \div 2).$

since $9 + 9$

$= 18, 20 - 2$

$= 18, 9 \times 2$

$= 18$ and $36 \div 2$

$= 18$, so $(9 + 9)$

$= (20 - 2)$

$= (9 \times 2)$

$= (36 \div 2).$

Inequality

The values of $7 + 5$ and 7×5 are 12 and 35 respectively. It means that they are not equal. To represent 'not equal', the symbol ' $\neq$ ' is used.

To show that $(7 + 5)$ and (7×5) are not equal, we write $(7 + 5) \neq (7 \times 5)$ in short.

This kind of representation is called an 'inequality'.

$(9 - 5) \neq (15 \div 3)$ means that the expressions $(9 - 5)$ and $(15 \div 3)$ are not equal.

If two expressions are not equal, one of them is greater or smaller than the other.

To show greater or lesser values, we use the symbols ' $<$ ' and ' $>$ '. Therefore, these symbols can also be used to show inequalities.

The value of $(9 - 5)$ is 4 and the value of $(15 \div 3)$ is 5. $4 < 5$, so the relation between $(9 - 5)$ and $(15 \div 3)$ can be shown as $(9 - 5) < (15 \div 3)$ or $(15 \div 3) > (9 - 5)$.

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Fill in the boxes between the expressions with $<$, $=$ or $>$ as required.

(1) $(9 + 8)$ [] $(30 \div 2)$

$$9 + 8 = 17,$$

$$30 \div 2 = 15$$

$$17 > 15$$

Therefore $(9 + 8)$ [$>$] $(30 \div 2)$

(2) (16×3) (4×12)

$$16 \times 3 = 48,$$

$$4 \times 12 = 48,$$

$$48 = 48$$

Therefore (16×3) [$=$] (4×12)

(3) $(16 - 5)$ [] (2×7)

$$16 - 5 = 11,$$

$$2 \times 7 = 14,$$

$$11 < 14$$

Therefore $(16 - 5)$ [$<$] (2×7)

Write a number in the box that will make this statement correct.

(1) $(7 \times 2) = ([] - 6)$

The value of the expression 7×2 is 14, so the number in the box has to be one that gives 14 when 6 is subtracted from it. Subtracting 6 from 20 gives us 14.

Therefore $(7 \times 2) = ([20] - 6)$

(2) $(24 \div 3) < (5 + [])$

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The value of the expression $24 \div 3$ is 8, so the number in the box has to be such that when it is added to 5, the sum is greater than 8.

Now, $5 + 1 = 6$, $5 + 2 = 7$, $5 + 3 = 8$. So the number in the box has to be greater than 3.

Therefore, writing any number like 4, 5, 6 ... onwards will do. It means that this problem has several answers. $(24 \div 3) < (5 + [4])$ is one among many answers. Even if that is true, writing only one answer will be enough to complete this statement.

Additional Important Questions and Answers

Question 1.

Fill in the blanks.

(1) $7 + 3 = \dots - \dots$

(2) $7 + 3 = \dots \times \dots$

(3) $7 + 3 = \dots + \dots$

Answer:

(1) $7 + 3 = 10$ and $12 - 2 = 10$ or $15 - 5 = 10$

(2) $7 + 3 = 10$ and $10 \times 1 = 10$ or $5 \times 2 = 10$

(3) $7 + 3 = 10$ and $20 + 2 = 10$ or $30 + 3 = 10$

Question 2.

Write the proper number in the box.

(1) $7 + 8 = 10 + []$

(2) $7 + 8 = 20 - []$

(3) $7 + 8 = 30 + []$

(4) $7 + 8 = 5 \times []$

Answer:

(1) $7 + 8 = 15$ so, $10 + [] = 15$.

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$$\therefore [] = 15 - 10 = 5$$

$$(2) 7 + 8 = 15 \text{ so, } 20 - [] = 15.$$

$$\therefore [] = 20 - 15 = 5$$

$$(3) 7 + 8 = 15 \text{ so, } 30 + [] = 15.$$

$$\therefore [] = 30 + 15 = 2$$

$$(4) 7 + 8 = 15 \text{ so, } 5 \times [] = 15.$$

$$\therefore [] = 15 \div 5 = 3$$



Maharashtra Board Solutions

Class 5 Maths

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- 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)
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- Chapter 3- Addition and Subtraction (Problem Set 12)
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- Chapter 4- Multiplication and Division (Problem Set 16)
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- Chapter 5- Fractions (Problem Set 22)
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Part 2.

- Chapter 8- Multiples and Factors (Problem Set 32)
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- Chapter 11- Problems on Measurement (Problem Set 47)
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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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