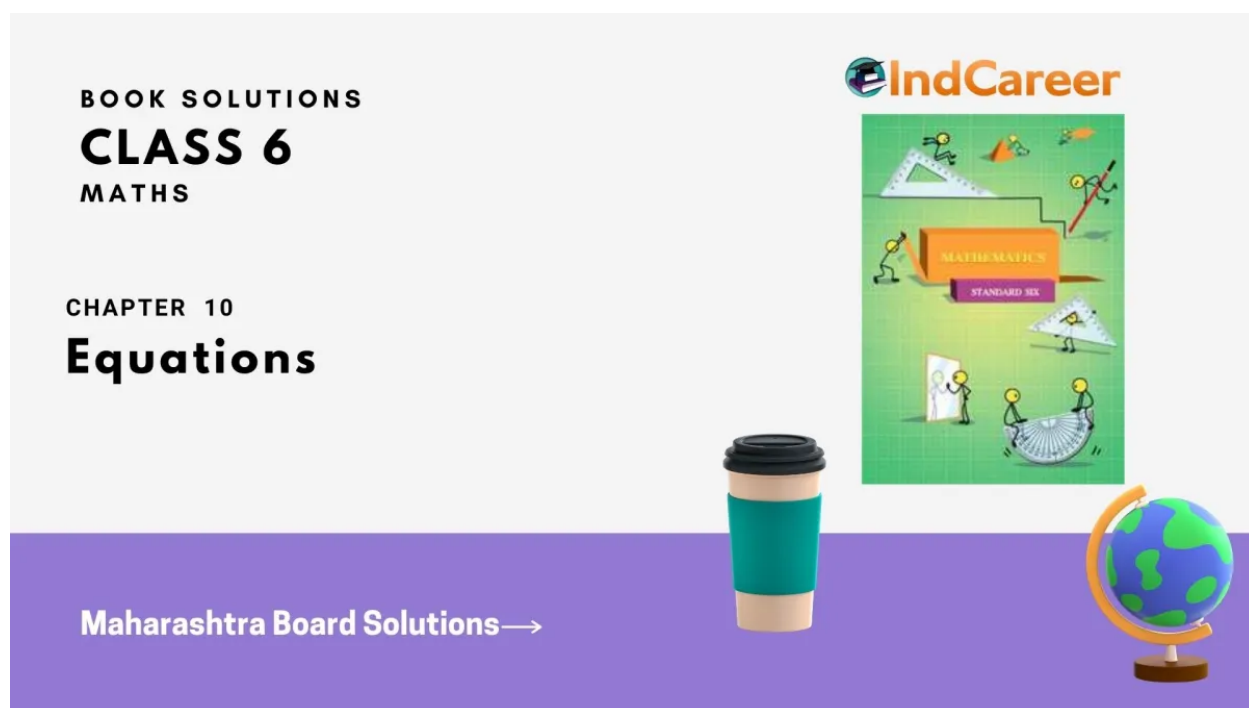


Maharashtra Board Solutions Class 6-Maths

(Practice Set 27): Chapter 10- Equations



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

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Maharashtra Board Solutions Class 6-Maths

(Practice Set 27): Chapter 10- Equations

Class 6: Maths Chapter 10 solutions. Complete Class 6 Maths Chapter 10 Notes.

Maharashtra Board Solutions Class 6-Maths (Practice Set 27): Chapter 10- Equations

Maharashtra Board 6th Maths Chapter 10, Class 6 Maths Chapter 10 solutions

Question 1.

Rewrite the following using a letter:

- i. The sum of a certain number and 3.
- ii. The difference is obtained by subtracting 11 from another number.
- iii. The product of 15 and another number.
- iv. Four times a number is 24.

Solution:

- i. Let the number be x .
 $\therefore x + 3$ represents the sum of a certain number x and 3.
- ii. Let the number be x .
 $\therefore x - 11$ represents the number obtained by subtracting 11 from another number x .
- iii. Let the number be x .
 $\therefore 15x$ represents the product of 15 and another number x .
- iv. Let the number be x .

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$\therefore 4x = 24$ represents four the product of a number x four times.

Question 2.

Find out which operation must be done on both sides of these equations in order to solve them:

1. $x + 9 = 11$
2. $x - 4 = 9$
3. $8x = 24$
4. $x6 = 3$

Solution:

1. Subtract 9 from both sides.
2. Add 4 to both sides.
3. Divide both sides by 8.
4. Multiply both sides by 6.

Question 3.

Given below are some equations and the values of the variables. Are these values the solutions to those equations?

No.	Equation	Value of the Variable	Solution (Yes/No)
i.	$y - 3 = 11$	$y = 3$	No
ii.	$17 = n + 7$	$n = 10$	
iii.	$30 = 5x$	$x = 6$	
iv.	$m2 = 14$	$m = 7$	

Solution:

No.	Equation	Value of the Variable	Solution (Yes/No)
i.	$y - 3 = 11$	$y = 3$	No

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ii. $17 = n + 7$ $n = 10$ Yes

iii. $30 = 5x$ $x = 6$ Yes

iv. $m^2 = 14$ $m = 7$ No

i. $y - 3 = 11$

$$\therefore y - 3 + 3 = 11 + 3$$

.... (Adding 3 to both sides)

$$\therefore y + 0 = 14$$

$$\therefore y = 14$$

ii. $17 = n + 7$

$$\therefore 17 - 7 = n + 7 - 7$$

.... (Subtracting 7 from both sides)

$$\therefore 17 + (-7) = n + 7 - 7$$

$$\therefore 10 = n$$

$$\therefore n = 10$$

iii. $30 = 5x$

$$\therefore 30 \div 5 = 5x \div 5$$

.... (Dividing both sides by 5)

$$\therefore 6 = 1x$$

$$\therefore 6 = x$$

$$\therefore x = 6$$

iv. $m^2 = 14$

$$\therefore m^2 \times 2 = 14 \times 2$$

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.... (Multiplying both sides by 2)

$$m \times 22 \times 1 = 28$$

$$\therefore m = 28$$

Question 4.

Solve the following equations:

i. $y - 5 = 1$

ii. $8 = t + 5$

iii. $4x = 52$

iv. $19 = m - 4$

v. $p4=9$

vi. $x + 10 = 5$

vi. $m - 5 = -12$

vii. $p + 4 = -1$

Solution:

i. $y - 5 = 1$

$$\therefore y - 5 + 5 = 1 + 5$$

.... (Adding 5 to both sides)

$$\therefore y + 0 = 6$$

$$\therefore y = 6$$

ii. $8 = t + 5$

$$\therefore 8 - 5 = t + 5 - 5$$

.....(Subtracting 5 from both sides)

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$$\therefore 8 + (-5) = t + 0$$

$$\therefore 3 = t$$

$$\therefore t = 3$$

iii. $4x = 52$

$$\therefore 4x = 52$$

.... (Dividing both sides by 4)

$$\therefore 1x = 13$$

$$\therefore x = 13$$

iv. $19 = m - 4$

$$\therefore 19 + 4 = m - 4 + 4$$

.... (Adding 4 to both sides)

$$\therefore 23 = m + 0$$

$$\therefore m = 23$$

v. $p4 = 9$

$$\therefore p4 \times 4 = 9 \times 4 \text{ (Multiplying both sides by 4)}$$

$$\therefore p \times 4 \times 4 = 36$$

$$\therefore 1p = 36$$

$$\therefore p = 36$$

vi. $x + 10 = 5$

$$\therefore x + 10 - 10 = 5 - 10$$

.... (Subtracting 10 from both sides)

$$\therefore x + 0 = 5 + (-10)$$

$$\therefore x = -5$$

vii. $m - 5 = -12$

$$\therefore m - 5 + 5 = -12 + 5$$

.... (Adding 5 to both sides)

$$\therefore m + 0 = -7$$

$$\therefore m = -7$$

viii. $p + 4 = -1$

$$\therefore p + 4 - 4 = -1 - 4$$

.... (Subtracting 4 from both sides)

$$\therefore p + 0 = (-1) + (-4)$$

$$\therefore P = -5$$

Question 5.

Write the given information as an equation and find its solution:

i. Haraba owns some sheep. After selling 34 of them in the market, he still has 176 sheep. How many sheep did Haraba have at first?

ii. Sakshi prepared some jam at home and filled it in bottles. After giving away 7 of the bottles to her friends she still has 12 for herself. How many bottles had she made in all? If she filled 250g of jam in each bottle, what was the total weight of the jam she made?

iii. Archana bought some kilograms of wheat. She requires 12 kg per month and she got enough wheat milled for 3 months. After that, she had 14 kg left. How much wheat had Archana bought altogether?

Solution:

i. Let the number of sheep before selling be x .

$$\therefore x - 34 = 176$$

$$\therefore x - 34 + 34 = 176 + 34 \text{(Adding 34 to both sides)}$$

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$$\therefore x + 0 = 210$$

$$\therefore x = 210$$

The number of sheep with Haraba before selling is 210.

ii. Let the total number of bottles be x .

$$\therefore x - 7 = 12$$

$$\therefore x - 7 + 7 = 12 + 7 \dots (\text{Adding 7 to both sides})$$

$$\therefore x + 0 = 19$$

$$\therefore x = 19$$

Weight of jam in each bottle = 250g

$$\therefore \text{Total weight of jam} = 19 \times 250\text{g} = 4750\text{ g} = 4750/1000\text{kg} = 4.75\text{ kg}$$

$\therefore$ The total number of bottles of jam made by Sakshi is 19, and the total weight of jam made is 4.75 kg.

iii. Let the total wheat bought by Archana be x kg.

Wheat used in 1 month = 12 kg

$$\therefore \text{Wheat used in 3 months} = 3 \times 12 = 36\text{ kg}$$

$$\therefore x - 36 = 14$$

$$\therefore x - 36 + 36 = 14 + 36 \dots (\text{Adding 36 to both sides})$$

$$\therefore x + 0 = 50$$

$$\therefore x = 50$$

$\therefore$ The total amount of wheat bought by Archana was 50 kg.



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- Chapter 1- Basic Concepts in Geometry (Practice Set 1)
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- 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)
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- Chapter 8- Divisibility (Practice Set 22)

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- Chapter 9- HCF-LCM (Practice Set 23)
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- 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)
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- 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)
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- Chapter 15- Triangles and their Properties (Practice Set 36)
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- Chapter 16- Quadrilaterals (Practice Set 38)
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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.

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