

Maharashtra Board Solutions Class 8-Maths

(Practice Set 9.1): Chapter 9- Discount and Commission



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Maharashtra Board Solutions Class 8-Maths

(Practice Set 9.1): Chapter 9- Discount and Commission

Class 8: Maths Chapter 9 solutions. Complete Class 8 Maths Chapter 9 Notes.

Maharashtra Board Solutions Class 8-Maths (Practice Set 9.1): Chapter 9- Discount and Commission

Maharashtra Board 8th Maths Chapter 9, Class 8 Maths Chapter 9 solutions

Question 1. If marked price = Rs 1700, selling price = Rs 1540, then find the discount.

Solution:

Here, Marked price = Rs 1700,

selling price = Rs 1540

Selling price = Marked price – Discount

$$\therefore 1540 = 1700 - \text{Discount}$$

$$\therefore \text{Discount} = 1700 - 1540$$

$$= \text{Rs } 160$$

$\therefore$ The amount of discount is Rs 160.

Question 2. If marked price Rs 990 and percentage of discount is 10, then find the selling price.

Solution:

Here, marked price = Rs 990,

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discount = 10%

Let the percentage of discount be x

$$\therefore x = 10\%$$

i. Discount

$$= \frac{\text{Marked price} \times x}{100}$$

$$= \frac{990 \times 10}{100}$$

$$= \text{Rs } 99$$

ii. Selling price = Marked price – Discount

$$= 990 - 99$$

$$= \text{Rs } 891$$

$\therefore$ The selling price is Rs 891.

Question 3. If selling price Rs 900, discount is 20%, then find the marked price.

Solution:

Here, selling price = Rs 900, discount = 20%

Let the marked price be Rs 100

Since, the discount given = 20%

$$\therefore \text{Amount of discount} = \text{Rs } 20$$

$$\therefore \text{Selling price} = 100 - 20 = \text{Rs } 80$$

Let actual marked price be Rs x

$$\therefore \text{For marked price of Rs } x, \text{ selling price is Rs } 900$$

$$80100 = 900x$$

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$$\therefore 80 \times x = 100 \times 900$$

$$\therefore x = 100 \times 900 / 80$$

$$\therefore x = \text{Rs } 1125$$

$\therefore$ The marked price is Rs 1125.

Question 4. The marked price of the fan is Rs 3000. Shopkeeper gave 12% discount on it. Find the total discount and selling price of the fan.

Solution:

Here, Marked price = Rs 3000, discount = 12%

Let the percentage of discount be x.

$$\therefore x = 12\%$$

i. Discount

$$= \frac{\text{Marked price} \times x}{100}$$

$$= \frac{3000 \times 12}{100}$$

$$= 30 \times 12$$

$$= \text{Rs } 360$$

ii. Selling price = Marked price – Discount

$$= 3000 - 360$$

$$= \text{Rs } 2640$$

$\therefore$ The total discount is Rs 360 and the selling price of the fan is Rs 2640.

Question 5. The marked price of a mixer is Rs 2300. A customer purchased it for Rs 1955. Find percentage of discount offered to the customer.

Solution:

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Here, marked price = Rs 2300,

selling price = Rs 1955

i. Selling price = Marked price – Discount

$$\therefore 1955 = 2300 - \text{Discount}$$

$$\therefore \text{Discount} = 2300 - 1955$$

$$= \text{Rs } 345$$

ii. Let the percentage of discount be x

$$\frac{x}{100} = \frac{\text{Discount}}{\text{Marked price}}$$

$$\therefore \frac{x}{100} = \frac{345}{2300}$$

$$\begin{aligned}\therefore x &= \frac{345}{2300} \times 100 \\ &= \frac{345}{23}\end{aligned}$$

$$\therefore x = 15\%$$

$\therefore$ The percentage of discount offered to the customer is 15%.

Question 6.

A shopkeeper gives 11% discount on a television set, hence the cost price of it is Rs 22,250. Then find the marked price of the television set.

Solution:

Here, selling price = Rs 22,250, discount = 11%

Let marked price be Rs 100

Since, the discount given = 11%

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∴ Amount of discount = Rs 11

∴ Selling price = $100 - 11 = \text{Rs } 89$

∴ Let actual marked price be Rs x

∴ For marked price of Rs x , selling price is Rs 22,250

$$\therefore \frac{89}{100} = \frac{22,250}{x}$$

$$\therefore x \times 89 = 100 \times 22,250$$

$$\begin{aligned}\therefore x &= \frac{100 \times 22,250}{89} \\ &= 100 \times 250\end{aligned}$$

∴ $x = \text{Rs } 25,000$

∴ The marked price of the television set is Rs 25,000.

Question 7. After offering discount of 10% on marked price, a customer gets total discount of Rs 17. To find the cost price for the customer, fill in the following boxes with appropriate numbers and complete the activity.

Solution:

Suppose, marked price of the item = 100 rupees Therefore, for customer that item costs $100 - 10 = 90$ rupees.

Hence, when the discount is [10] then the selling price is [90] rupees.

Suppose when the discount is [17] rupees, the selling price is x rupees.

$$\therefore \frac{x}{17} = \frac{90}{10}$$

$$\therefore x = \frac{90 \times 17}{10}$$

$$\therefore x = 9 \times 17$$

$$\therefore x = 153$$

$\therefore$ The customer will get the item for Rs 153.

Question 8.

A shopkeeper decides to sell a certain item at a certain price. He tags the price on the item by increasing the decided price by 25%. While selling the item, he offers 20% discount. Find how many more or less percent he gets on the decided price.

Solution:

Here, price increase = 25%,

discount offered = 20%

Let the decided price be Rs 100

$\therefore$ Increase in price = Rs 25

$\therefore$ Shopkeeper marks the price = $100 + 25$

= Rs 125

$\therefore$ marked price = Rs 125

Let the percentage of discount be x

$\therefore x = 20\%$

$$\begin{aligned}\therefore \text{Discount} &= \frac{\text{marked price} \times x}{100} \\ &= \frac{125 \times 20}{100} \\ &= \frac{2500}{100} \\ &= ₹ 25\end{aligned}$$

$\therefore$ Selling price = Marked price – Discount

$$= 125 - 25$$

$$= \text{Rs } 100$$

$\therefore$ If the decided price is Rs 100, then shopkeeper gets Rs 100.

$\therefore$ The shopkeeper gets neither more nor less than the decided price i.e. he gets 0% more / less.

Intext Questions and Activities

Question 1.

Write the appropriate numbers in the following boxes. (Textbook pg. no. 51)

1. 12100 = ___ percent = ___%
2. 47% = ___
3. 86% = ___
4. 4% of 300 = $300 \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$
5. 15% of 1700 = $1700 \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

Solution:

1. 12100 = 12 percent = 12%
2. 47% = 47100
3. 86% = 86100
4. 4% of 300 = $300 \times 4100 = 12$
5. 15% of 1700 = $1700 \times 15100 = 255$

Question 2.

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You may have seen advertisements like 'Monsoon Sale', 'Stock Clearance Sale' etc offering different discount. In such a sale, a discount is offered on various goods. Generally in the month of July, sales of clothes are declared. Find and discuss the purpose of such sales. (Textbook pg. no. 51)

Solution:

(Students should attempt the above activity on their own)



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Class 8 Maths

- Chapter 1- Rational and Irrational Numbers (Practice Set 1.1)
- Chapter 1- Rational and Irrational Numbers (Practice Set 1.2)
- Chapter 1- Rational and Irrational Numbers (Practice Set 1.3)
- Chapter 1- Rational and Irrational Numbers (Practice Set 1.4)
- Chapter 2- Parallel Lines and Transversals (Practice Set 2.1)
- Chapter 2- Parallel Lines and Transversals (Practice Set 2.2)
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- Chapter 3- Indices and Cube Root (Practice Set 3.1)
- Chapter 3- Indices and Cube Root (Practice Set 3.2)
- Chapter 3- Indices and Cube Root (Practice Set 3.3)
- Chapter 4- Altitudes and Medians of a Triangle (Practice Set 4.1)
- Chapter 5- Expansion Formulae (Practice Set 5.1)
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- Chapter 5- Expansion Formulae (Practice Set 5.3)
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- Chapter 6- Factorisation of Algebraic Expressions (Practice Set 6.1)
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- Chapter 7- Variation (Practice Set 7.1)

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- Chapter 7- Variation (Practice Set 7.2)
- Chapter 7- Variation (Practice Set 7.3)
- Chapter 8- Quadrilateral: Constructions and Types (Practice Set 8.1)
- Chapter 8- Quadrilateral: Constructions and Types (Practice Set 8.2)
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- Chapter 9- Discount and Commission (Practice Set 9.1)
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- Chapter 10- Division of Polynomials (Practice Set 10.1)
- Chapter 10- Discount and Commission (Practice Set 10.2)
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- Chapter 12- Equations in One Variable (Practice Set 12.1)
- Chapter 12- Equations in One Variable (Practice Set 12.2)
- Chapter 13- Congruence of Triangles (Practice Set 13.1)
- Chapter 13- Congruence of Triangles (Practice Set 13.2)
- Chapter 14- Compound Interest (Practice Set 14.1)
- Chapter 14- Compound Interest (Practice Set 14.2)
- Chapter 15- Area (Practice Set 15.1)
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- Chapter 15- Area (Practice Set 15.5)
- Chapter 15- Area (Practice Set 15.6)
- Chapter 16- Surface Area and Volume (Practice Set 16.1)

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- Chapter 16- Surface Area and Volume (Practice Set 16.2)
- Chapter 16- Surface Area and Volume (Practice Set 16.3)
- Chapter 17- Factorisation of Algebraic Expressions (Practice Set 17.1)
- Chapter 17- Factorisation of Algebraic Expressions (Practice Set 17.2)

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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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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