

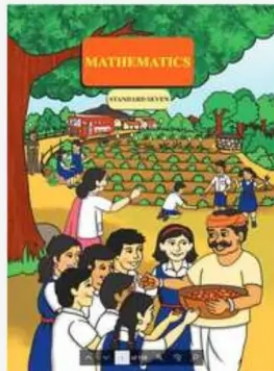
# Maharashtra Board Solutions Class 7-Maths

## (Practice Set 37): Chapter 9- Direct Proportion and Inverse Proportion

BOOK SOLUTIONS  
**CLASS 7**  
MATHS

CHAPTER 9  
**Direct Proportion and Inverse Proportion**

Maharashtra Board Solutions→



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# Maharashtra Board Solutions Class 7-Maths

## (Practice Set 37): Chapter 9- Direct Proportion and Inverse Proportion

Class 7: Maths Chapter 9 solutions. Complete Class 7 Maths Chapter 9 Notes.

### Maharashtra Board Solutions Class 7-Maths (Practice Set 37): Chapter 9- Direct Proportion and Inverse Proportion

Maharashtra Board 7th Maths Chapter 9, Class 7 Maths Chapter 9 solutions

#### Question 1.

If 7 kg onions cost Rs 140, how much must we pay for 12 kg onions?

**Solution:**

Let the cost of 12 kg onions be Rs x.

The quantity of onions and their cost are in direct proportion.

$$\therefore \frac{7}{140} = \frac{12}{x}$$

$$\therefore 7x = 12 \times 140 \dots (\text{Multiplying both sides by } 140x)$$

$$\therefore x = \frac{12 \times 140}{7}$$

$$= 240$$

We must pay Rs 240 for 12 kg onions.

#### Question 2.

If Rs 600 buy 15 bunches of feed, how many will Rs 1280 buy?

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**Solution:**

Let the bunches of feed bought for Rs 1280 be  $x$ .

The quantity of feed bought and their cost are in direct proportion.

$$\therefore 60015=1280x$$

$$\therefore 600x = 1280 \times 15 \dots \text{(Multiplying both sides by 15x)}$$

$$\therefore x=1280 \times 15600=32$$

$\therefore$  32 bunches of feed can be bought for Rs 1280.

**Question 3.**

**For 9 cows, 13 kg 500 g of food supplement are required every day. In the same proportion, how much will be needed for 12 cows?**

**Solution:**

Let the food supplement required for 12 cows be  $x$  kg.

The quantity of food supplement required and the number of cows are in direct proportion.

$$\therefore 13\text{kg}500\text{gram}9=x\text{kg}12$$

$$\therefore 13.59=x12 \dots (13 \text{ kg } 500 \text{ gram} = 13.5 \text{ kg})$$

$$\therefore 13.5 \times 12 = 9x \dots \text{(Multiplying both sides by } 9 \times 12\text{)}$$

$$\therefore 13.5 \times 129=x$$

$$\therefore x = 18$$

$\therefore$  The food supplement required for 12 cows is 18 kg.

**Question 4.**

**The cost of 12 quintals of soyabean is Rs 36,000. How much will 8 quintals cost?**

**Solution:**

Let the cost of 8 quintals of soyabean be Rs  $x$ .

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The quantity of soyabeans and their cost are in direct proportion.

$$\therefore 1236000=8x$$

$$\therefore 12x = 8 \times 36000 \dots(\text{Multiplying both sides by } 36000x)$$

$$\therefore x=8 \times 36000 \div 12=24000$$

$\therefore$  The cost of 8 quintals of soyabean is Rs 24000.

#### Question 5.

**Two mobiles cost Rs 16,000. How much money will be required to buy 13 such mobiles ?**

**Solution:**

Let the cost of 13 mobiles be Rs x.

The quantity of mobiles and their cost are in direct proportion.

$$\therefore 216000=13x$$

$$\therefore 2x = 13 \times 16000 \dots(\text{Multiplying both sides by } 16000x)$$

$$\therefore x=13 \times 16000 \div 2=104000$$

$\therefore$  Rs 104000 will be required to buy 13 mobiles.



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- Chapter 1- Geometrical Constructions (Practice Set 4)
- Chapter 1- Geometrical Constructions (Practice Set 5)
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- Chapter 2- Multiplication and Division of Integers (Practice Set 9)
- Chapter 3- HCF and LCM (Practice Set 10)
- Chapter 3- HCF and LCM (Practice Set 11)
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- Chapter 4- Angles and Pairs of Angles (Practice Set 15)
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- Chapter 4- Angles and Pairs of Angles (Practice Set 18)
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- Chapter 5- Operations on Rational Numbers (Practice Set 22)
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- Chapter 6- Indices (Practice Set 30)
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- Chapter 9- Direct Proportion and Inverse Proportion (Practice Set 39)
- Chapter 10- Bank and Simple Interest (Practice Set 40)
- Chapter 10- Bank and Simple Interest (Practice Set 41)
- Chapter 11- Circle (Practice Set 42)

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- Chapter 11- Circle (Practice Set 43)
- Chapter 12- Perimeter and Area (Practice Set 44)
- Chapter 12- Perimeter and Area (Practice Set 45)
- Chapter 12- Perimeter and Area (Practice Set 46)
- Chapter 12- Perimeter and Area (Practice Set 47)
- Chapter 13- Pythagoras Theorem (Practice Set 48)
- Chapter 13- Pythagoras Theorem (Practice Set 49)
- Chapter 14- Algebraic Formulae - Expansion of Squares (Practice Set 50)
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- Chapter 14- Algebraic Formulae - Expansion of Squares (Practice Set 53)
- Chapter 15- Statistics (Practice Set 54)
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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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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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