

Maharashtra Board Solutions Class 6-Maths

(Practice Set 29): Chapter 11-

Ratio-Proportion



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Maharashtra Board Solutions Class 6-Maths

(Practice Set 29): Chapter 11-

Ratio-Proportion

Class 6: Maths Chapter 11 solutions. Complete Class 6 Maths Chapter 11 Notes.

Maharashtra Board Solutions Class 6-Maths (Practice Set 29): Chapter 11- Ratio-Proportion

Maharashtra Board 6th Maths Chapter 11, Class 6 Maths Chapter 11 solutions

Question 1.

If 20 metres of cloth costs Rs 3600, find the cost of 16 m of cloth.

Solution:

Cost of 20 metres of cloth = Rs 3600

$\therefore$ Cost of 1 metre of cloth = $\frac{\text{cost of 20 metres of cloth}}{20} = \frac{3600}{20}$

= Rs 180

$\therefore$ Cost of 16 metres of cloth = Cost of 1 metre of a cloth $\times$ 16

= 180×16 = Rs 2880

$\therefore$ The cost of 16 metres of cloth is Rs 2880.

Question 2.

Find the cost of 8 kg of rice, if the cost of 10 kg is Rs 325.

Solution:

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Cost of 10 kg rice = Rs 325

∴ Cost of 10 kg rice

$$= \frac{\text{Cost of 10 kg rice}}{10} = \frac{325}{10} = \frac{325 \div 5}{10 \div 5} = ₹ \frac{65}{2}$$

Cost of 8 kg rice = Cost of 1 kg rice x 8

$$= \frac{65 \times 8}{2} = \frac{520}{2} = ₹ 260$$

∴ The cost of 8 kg rice is Rs 260.

Question 3.

If 14 chairs cost Rs 5992, how much will have to be paid for 12 chairs?

Solution:

Cost of 14 chairs = Rs 5992

∴ Cost of 1 chairs

$$= \frac{\text{Cost of 14 chairs}}{14} = \frac{5992}{14}$$

= Rs 428

∴ Cost of 12 chairs = Cost of 1 chair x 12

= 428 x 12 = Rs 5136

∴ The amount to be paid for 12 chairs is Rs 5136.

Question 4.

The weight of 30 boxes is 6 kg. What is the weight of 1080 such boxes?

Solution:

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Weight of 30 boxes = 6 kg

∴ Weight of 1 box

$$= \frac{\text{Weight of 30 boxes}}{30} = \frac{6}{30} = \frac{6 \div 6}{30 \div 6} = \frac{1}{5} \text{ kg}$$

∴ Weight of 1080 boxes = Weight of 1 box x 1080

$$= \frac{1}{5} \times 1080 = \frac{1 \times 1080}{5 \times 1} = 216 \text{ kg}$$

∴ The weight of 1080 boxes is 216 kg.

Question 5.

A car travelling at a uniform speed covers a distance of 165 km in 3 hours. At that same speed,

a. How long will it take to cover a distance of 330 km?

b. How far will it travel in 8 hours?

Solution:

Distance covered in 3 hours = 165 km

Distance covered in 1 hour

$$= \frac{\text{Distance covered in 3 hours}}{3} = \frac{165}{3}$$

= 55 km

a. Time required to covered a distance of 330 km

$$= \frac{\text{Total distance}}{\text{Distance covered in 1 hour}} = \frac{330}{55}$$

= 6 hours

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∴ The time required to cover a distance of 330 km is 6 hours.

b. Distance traveled in 8 hours = Distance covered in 1 hour x 8

$$= 55 \times 8 = 440 \text{ km}$$

∴ The distance traveled in 8 hours is 440 km.

Question 6.

A tractor uses up 12 litres of diesel while ploughing 3 acres of land. How much diesel will be needed to plough 19 acres of land?

Solution:

Diesel required to plough 3 acres of land = 12 litres

∴ Diesel required to plough 1 acre of land

$$= \frac{\text{Diesel required to plough 3 acres of land}}{3} = \frac{12}{3}$$

$$= 4 \text{ liters}$$

∴ Diesel required to plough 19 acres of land = Diesel required to plough 1 acre of land x 19

$$= 4 \times 19 = 76 \text{ litres}$$

∴ Diesel needed to plough 19 acres of land is 76 litres.

Question 7.

At a sugar factory, 5376 kg of sugar can be obtained from 48 tonnes of sugarcane. If Savitai has grown 50 tonnes of sugarcane, how much sugar will it yield?

Solution:

Sugar obtained from 48 tonnes of sugarcane = 5376 kg

∴ Sugar obtained from 48 tonnes of sugarcane

$$\begin{aligned} &= \frac{\text{Sugar obtained from 48 tonnes of sugarcane}}{48} \\ &= \frac{5376}{48} = \frac{5376 \div 16}{48 \div 16} = \frac{336}{3} = 112 \text{ kg} \end{aligned}$$

$\therefore$ Sugar obtained from 50 tonnes of sugarcane = Sugar obtained from 1 tonne of sugarcane $\times$ 50

$$= 112 \times 50 = 5600 \text{ kg}$$

$\therefore$ 50 tonnes of sugarcane will yield 5600 kg of sugar.

Question 8.

In an orchard, there are 128 mango trees in 8 rows. If all the rows have an equal number of trees, how many trees would there be in 13 rows?

Solution:

Number of mango trees in 8 rows = 128

Number of mango trees in 1 row

$$= \frac{\text{Number of mango trees in 8 rows}}{8} = \frac{128}{8} = 16 \text{ trees}$$

$\therefore$ Number of mango trees in 13 rows = Number of mango trees in 1 row $\times$ 13

$$= 16 \times 13 = 208$$

$\therefore$ The number of mango trees in 13 rows are 208.

Question 9.

A pond in a field holds 120000 litres of water. It costs Rs 18000 to make such a pond. How many ponds will be required to store 480000 litres of water, and what would be the expense?

Solution:

Capacity of 1 pond = 1,20,000 litres

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Total quantity of water = 4,80,000 litres

∴ Number of ponds required

$$\begin{aligned} &= \frac{\text{Total quantity of water}}{\text{Capacity of one pond}} \\ &= \frac{4,80,000}{1,20,000} = \frac{4,80,000 \div 10,000}{1,20,000 \div 10,000} = \frac{48}{12} = 4 \text{ ponds} \end{aligned}$$

Amount required to make 1 pond = Rs 18,000

∴ Amount required to make 4 ponds = Amount required to make 1 pond $\times$ 4

$$= 18,000 \times 4 = \text{Rs } 72,000$$

∴ The number of ponds required to store 4,80,000 litres of water is 4, and the expense incurred in making the ponds is Rs 72,000.

Questions and Activities

Question 1.

Vijaya wanted to gift pens to seven of her friends on her birthday. When she went to a shop to buy them, the shopkeeper told her the rate for a dozen pens.

- Can you help Vijaya to find the cost of 7 pens?
- If you find the cost of one pen, you can also find the cost of 7, right? (Textbook pg. no. 59)



Solution:

Cost of 12 pens = Rs 84.

∴ Cost of 12 pens

$$= \frac{\text{Cost of 12 pens}}{12} = \frac{84}{12} = ₹ 7$$

∴ Cost of 7 pens = Cost of one pen x Number of pens = 7 × 7

∴ Cost of 7 pens = Rs 49

∴ The cost of 7 pens (Rs 49) can be found by unitary method.



Maharashtra Board Solutions

Class 6 Maths

- Chapter 1- Basic Concepts in Geometry (Practice Set 1)
- Chapter 2- Angles (Practice Set 2)
- 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)
- Chapter 5- Decimal Fractions (Practice Set 16)
- Chapter 5- Decimal Fractions (Practice Set 17)
- Chapter 6- Bar Graphs (Practice Set 18)
- Chapter 6- Bar Graphs (Practice Set 19)
- Chapter 7- Symmetry (Practice Set 20)
- Chapter 7- Symmetry (Practice Set 21)
- Chapter 8- Divisibility (Practice Set 22)

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- Chapter 9- HCF-LCM (Practice Set 23)
- Chapter 9- HCF-LCM (Practice Set 24)
- 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)
- Chapter 12- Percentage (Practice Set 30)
- 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)
- Chapter 14- Banks and Simple Interest (Practice Set 35)
- Chapter 15- Triangles and their Properties (Practice Set 36)
- Chapter 16- Quadrilaterals (Practice Set 37)
- Chapter 16- Quadrilaterals (Practice Set 38)
- Chapter 17- Geometrical Constructions (Practice Set 39)
- Chapter 17- Geometrical Constructions (Practice Set 40)
- Chapter 18- Three Dimensional Shapes (Practice Set 41)

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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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FAQs

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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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