

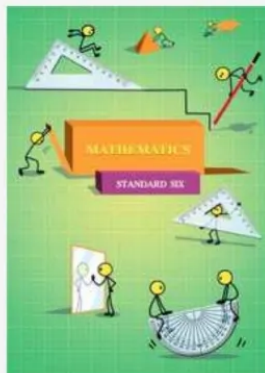
Maharashtra Board Solutions Class 6-Maths

(Practice Set 17): Chapter 5- Decimal Fractions

BOOK SOLUTIONS
CLASS 6
MATHS

CHAPTER 5
Decimal Fractions

Maharashtra Board Solutions→



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

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Maharashtra Board Solutions Class 6-Maths

(Practice Set 17): Chapter 5- Decimal Fractions

Class 6: Maths Chapter 5 solutions. Complete Class 6 Maths Chapter 5 Notes.

Maharashtra Board Solutions Class 6-Maths (Practice Set 17): Chapter 5- Decimal Fractions

Maharashtra Board 6th Maths Chapter 5, Class 6 Maths Chapter 5 solutions

Question 1.

Carry out the following divisions.

i. $4.8 \div 2$

ii. $17.5 \div 5$

iii. $20.6 \div 2$

iv. $32.5 \div 25$

Solution:

i. $4.8 \div 2$

$$\begin{aligned} &= \frac{48}{10} \div \frac{2}{1} = \frac{48}{10} \times \frac{1}{2} = \frac{48}{20} \\ &= \frac{48 \times 5}{20 \times 5} = \frac{240}{100} = \mathbf{2.4} \end{aligned}$$

ii. $17.5 \div 5$

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$$\begin{aligned} &= \frac{175}{10} \div \frac{5}{1} = \frac{175}{10} \times \frac{1}{5} = \frac{175}{50} \\ &= \frac{175 \times 2}{50 \times 2} = \frac{350}{100} = 3.5 \end{aligned}$$

iii. $20.6 \div 2$

$$\begin{aligned} &= \frac{206}{10} \div \frac{2}{1} = \frac{206}{10} \times \frac{1}{2} = \frac{206}{20} \\ &= \frac{206 \times 5}{20 \times 5} = \frac{1030}{100} = 10.3 \end{aligned}$$

iv. $32.5 \div 25$

$$\begin{aligned} &= \frac{325}{10} \div \frac{25}{1} = \frac{325}{10} \times \frac{1}{25} = \frac{325}{250} \\ &= \frac{325 \times 4}{250 \times 4} = \frac{1300}{1000} = 1.3 \end{aligned}$$

Question 2.

A road is 4 km 800 m long. If trees are planted on both its sides at intervals of 9.6 m, how many trees were planted?

Solution:

Length of road = 4 km 800 m

$$= 4 \times 1000 \text{ m} + 800 \text{ m}$$

$$= 4000 \text{ m} + 800 \text{ m}$$

$$= 4800 \text{ m}$$

Number of trees on one side = $4800 \div 9.6$

$$= \frac{4800}{1} \div \frac{96}{10} = \frac{4800}{1} \times \frac{10}{96} = \frac{48000}{96}$$

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$$= 500$$

∴ Number of trees on both sides = 2 x number of trees on one side

$$= 2 \times 500 = 1000$$

If the trees are planted at the beginning of the road, then

$$\text{Total number of trees} = 1000 + 2 = 1002$$

∴ Total number of trees planted is 1000 or 1002.

Question 3.

Pradnya exercises regularly by walking along a circular path on a field. If she walks a distance of 3.825 km in 9 rounds of the path, how much does she walk in one round?

Solution:

Total distance walked in 9 rounds = 3.825 km

∴ Distance walked in 1 round = $3.825 \div 9$

$$= \frac{3825}{1000} \div \frac{9}{1} = \frac{3825}{1000} \times \frac{1}{9} = \frac{425}{1000}$$

$$= 0.425 \text{ km}$$

∴ Total distance walked in 1 round is 0.425 km.

Question 4.

A pharmaceutical manufacturer bought 0.25 quintal of hirada, a medicinal plant, for Rs 9500. What is the cost per quintal of hirada? (1 quintal = 100 kg)

Solution:

Cost of 0.25 quintal of hirada = Rs 9500

∴ Cost of 1 quintal of hirada = $9500 \div 0.25$

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$$= 9500 \div \frac{25}{100} = 9500 \times \frac{100}{25} = \frac{950000 \times 4}{25 \times 4} = \frac{38,00,000}{100}$$

= Rs 38,000

∴ Cost per quintal of hirada is Rs 38,000.

Questions and Activities

Question 1.

Maths is fun! (Textbook pg. no. 34)

1. Consider any three-digit number (say 527).
2. Multiply the number by 7. Then multiply the product obtained by 13, and this product by 11.
3. The found product is 5,27,527.

Take two or three other numbers. Do the same multiplication and find out how it is done.

Solution:

$$7 \times 13 \times 11 = 1001$$

$$\therefore 527 \times 1001 = 527 \times (1000 + 1)$$

$$= (527 \times 1000) + (527 \times 1)$$

$$= 527000 + 527 = 527527$$

Thus, when any three-digit number is multiplied with 1001, the product obtained is a six-digit number in which the original three-digit number is written back to back twice.

(Students may consider any other three-digit numbers and verify the property.)



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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