

Maharashtra Board Solutions Class 6-Maths

(Practice Set 14): Chapter 5- Decimal Fractions



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

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Maharashtra Board Solutions Class 6-Maths

(Practice Set 14): 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 14): Chapter 5- Decimal Fractions

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

Question 1.

In the table below, write the place value of each of the digits in the number 378.025.

Place	Hundreds	Tens	Units	Tenths	Hundredths	Thousandths
	100	10	1	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
Digit	3	7	8	0	2	5
Place value	300			$\frac{0}{10}$ =0		$\frac{5}{1000}$ = 0.005

Solution:

Place	Hundreds	Tens	Units	Tenths	Hundredths	Thousandths
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	100	10	1	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
Digit	3	7	8	0	2	5
Place value	300	$7 \times 10 = 70$	$8 \times 1 = 8$	$\frac{0}{10} = 0$	$\frac{2}{100} = 0.02$	$\frac{5}{1000} = 0.005$

Question 2.

Solve :

i. $905.5 + 27.197$

ii. $39 + 700.65$

iii. $40 + 27.7 + 2.451$

Solution:

i. $905.5 + 27.197$

$$\begin{array}{r} 905.500 \\ + 27.197 \\ \hline 932.697 \end{array}$$

ii. $39 + 700.65$

$$\begin{array}{r} 39.00 \\ + 700.65 \\ \hline 739.65 \end{array}$$

iii. $40 + 27.7 + 2.451$

$$\begin{array}{r} 40.000 \\ 27.700 \\ + 2.451 \\ \hline 70.151 \end{array}$$

Question 3.**Subtract:**

i. $85.96 - 2.345$

ii. $632.24 - 97.45$

iii. $200.005 - 17.186$

Solution:

i. $85.96 - 2.345$

$$\begin{array}{r} 85.960 \\ - 2.345 \\ \hline 83.615 \end{array}$$

ii. $632.24 - 97.45$

$$\begin{array}{r} 632.24 \\ - 97.45 \\ \hline 534.79 \end{array}$$

iii. $200.005 - 17.186$

$$\begin{array}{r} 200.005 \\ - 17.186 \\ \hline 182.819 \end{array}$$

Question 4.

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Avinash traveled 42 km 365 m by bus, 12 km 460 m by car and walked 640 m. How many kilometers did he travel altogether? (Write your answer in decimal fractions)

Solution:

Distance traveled in bus = 42 km 365 m

$$= 42 \text{ km} + \frac{365}{1000} \text{ km}$$

$$= 42 \text{ km} + 0.365 \text{ km}$$

$$\begin{array}{r} 42.000 \\ + 0.365 \\ \hline 42.365 \end{array}$$

$$= 42.365 \text{ km}$$

Distance travelled in car = 12 km 460 m

$$= 12 \text{ km} + \frac{460}{1000} \text{ km}$$

$$= 12 \text{ km} + 0.460 \text{ km}$$

$$\begin{array}{r} 12.000 \\ + 0.460 \\ \hline 12.460 \end{array}$$

$$= 12.460 \text{ km}$$

Distance walked = 640 m

$$= \frac{640}{1000} = 0.640 \text{ km}$$

∴ Total distance travelled = Distance travelled in bus + Distance travelled in car + Distance walked

$$= 42.365 + 12.460 + 0.640$$

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$$\begin{array}{r} 42.365 \\ 12.460 \\ + 0.640 \\ \hline 55.465 \end{array}$$

$$= 55.465 \text{ km}$$

∴ Distance travelled altogether by Avinash is 55.465 km.

Question 5.

Ayesha bought 1.80 m of cloth for her salwaar and 2.25 for her kurta. If the cloth costs Rs 120 per metre, how much must she pay the shopkeeper?

Solution:

Total length of cloth bought = 1.80 m + 2.25 m

$$= 4.05 \text{ m}$$

$$\begin{array}{r} 1.80 \\ + 2.25 \\ \hline 4.05 \end{array}$$

Cost of 1 m of cloth = Rs 120

∴ Cost of 4.05 m of cloth = 4.05×120

$$= \frac{405}{100} \times 120 = \frac{405 \times 120}{100 \times 1} = \frac{48600}{100} = ₹ 486$$

∴ Amount to be paid to the shopkeeper is Rs 486.

Question 6.

Sujata bought a watermelon weighing 4.25 kg and gave 1 kg 750 g to the children in her neighbourhood. How much of it does she have left?

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Solution:

Total weight of watermelon = 4.25 kg

Weight of watermelon given to children = 1 kg 750 g

$$= 1 \text{ kg} + \frac{750}{1000} \text{ kg}$$

$$= 1 \text{ kg} + 0.75 \text{ kg}$$

$$\begin{array}{r} 1.000 \\ + 0.750 \\ \hline 1.750 \end{array}$$

$$= 1.75 \text{ kg}$$

∴ Weight of watermelon left = Total weight of watermelon – Weight of watermelon given to children

$$= 4.25 \text{ kg} - 1.75 \text{ kg}$$

$$\begin{array}{r} 4.25 \\ - 1.75 \\ \hline 2.50 \end{array}$$

$$= 2.5 \text{ kg}$$

∴ Weight of watermelon left with Sujata is 2.5 kg.

Question 7.

Anita was driving at a speed of 85.6 km per hour. The road had a speed limit of 55 km per hour. By how much should she reduce her speed to be within the speed limit?

Solution:

Speed at which Anita is driving = 85.6 km per hr.

Speed limit = 55 km per hr.

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∴ Anita should reduce her speed by 85.6 km per hr – 55 km per hr.

$$\begin{array}{r} 85.6 \\ - 55.0 \\ \hline 30.6 \end{array}$$

= 30.6 km per hr.

∴ Anita should reduce her speed by 30.6 km per hour to be within the speed limit.

Questions and Activities

Question 1.

Nandu went to a shop to buy a pen, notebook, eraser and a paint box. The shopkeeper told him the prices. A pen costs four and a half rupees, an eraser one and a half, a notebook six and a half and a paintbox twenty-five rupees and fifty paise. Nandu bought one of each article. Prepare his bill.

If Nandu gave a 100 rupee note, how much money does he get back? (Textbook pg. no. 29)



$$100 - \boxed{} = \boxed{}$$

Ashay Vastu Bhandar

SNo 87
Date: 11.1.16

Nandu

SNo	Details	Qty	Amount
1	Pen	1	4.50
Total			

Nandu will get __ rupees back.

Solution:

$$100 - 38 = 62.00$$

Nandu will get Rs 62 rupees back.

Ashay Vastu Bhandar			
Sr No. 87		Date: 11.1.16	
Name: <u>Nandu</u>			
Sr. No.	Details	Qty	Amount(₹)
1	Pen	1	4.50
2	Notebook	1	6.50
3	Eraser	1	1.50
4	Paint box	1	25.50
	Total		38.00

Question 2.

Take a pen and notebook with you when you go to the market with your parent. Note the weight of every vegetable your mother buys. Find out the total weight of those vegetables. (Textbook pg. no. 30)

Solution:

(Students should attempt this activity on their own.)



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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