

Maharashtra Board Solutions Class 5-Maths

(Problem Set 46) - Part 2: Chapter 11-

Problems on Measurement

BOOK SOLUTIONS
CLASS 5
MATHS (PART 2)

CHAPTER 11
Problems on Measurement



Maharashtra Board Solutions→



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Maharashtra Board Solutions Class 5-Maths

(Problem Set 46) - Part 2: Chapter 11-

Problems on Measurement

Class 5: Maths Chapter 11 solutions. Complete Class 5 Maths Chapter 11 Notes.

Maharashtra Board Solutions Class 5-Maths (Problem Set 46) - Part 2: Chapter 11- Problems on Measurement

Maharashtra Board 5th Maths Chapter 11, Class 5 Maths Chapter 11 solutions

Important Questions and Answers.

Question 1.

Add :

(1) ₹ 9, 50 paise + ₹ 14, 60 paise

Solution:

₹	Pais
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1	
---	--

9	50
---	----

+ 14	60
------	----

24	10
----	----

50 paise + 60 paise

= 110 paise

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= 1 ₹ 10 paise

∴ ₹ 24, 10 paise

(2) 6 cm 5 mm + 7 cm 9 mm

Solution:

5 mm + 9 mm

= 14 mm 14 mm

= 1 cm 4 mm

∴ 14 cm 4 mm

(3) 22 m 50 cm + 25 m 75 cm

Solution:

m	cm
---	----

1	
---	--

22	50
+ 25	75

48	25
----	----

50 cm + 75 cm

= 125 cm

= 1 m 25 cm

∴ 48 m 25 cm

(4) 15 km 740 m + 13 km 950 m

Solution:

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km m

1

1 5 7 4 0
+ 13 9 5 0

2 9 6 9 0

740 m + 950 m

= 1690 m 1690 m

= 1km 690 m

∴ 29 km 690 m

(5) 25 kg 650 g + 29 kg 770 g

Solution:

kg gm

1

2 5 6 5 0
+ 29 7 7 0

5 5 4 2 0

650 gm + 770 gm

= 1420 gm

= 1 kg 420 gm

∴ 55 kg 420 gm

(6) 19l 840ml + 25l 250ml

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Solution:

$$\begin{array}{r} \text{ml} \\ 11 \\ 19 \quad 840 \\ + 25 \quad 250 \\ \hline 45 \quad 090 \end{array}$$

$$840 \text{ ml} + 250 \text{ ml}$$

$$= 1090 \text{ ml}$$

$$= 11 + 90 \text{ ml}$$

$$\therefore 45 \text{ l } 90 \text{ ml}$$

Question 2.

Subtract :

$$(1) \text{ ₹ } 19, 50 \text{ paise} - \text{ ₹ } 12, 60 \text{ paise}$$

Solution:

$$\begin{array}{r} \text{₹} \quad \text{Paise} \\ 18 \quad 150 \\ - 12 \quad 60 \\ \hline 6 \quad 90 \end{array}$$

We cannot subtract 60 paise from 50 paise. So convert 1 ₹ into 100 paise.

$$\text{₹ } 6, 90 \text{ paise}$$

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∴ ₹ 6, 90 paise

(2) 24 cm 2 mm – 3 cm 8 mm

Solution:

mm
cm

23 12

24 2
– 3 8

20 4

We cannot subtract 8 mm from 2 mm. So, convert 1 cm = 10 mm

∴ 20 cm 4 mm

(3) 20 m 30 cm – 17 m 60 cm

Solution:

cm
m

19 130

20 30
– 17 60

2 70

We cannot subtract 60 cm from 30 cm. So, convert 1 m = 100 cm

∴ 2 m 70 cm

(4) 40 km 255 m – 17 km 960 m

Solution:

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km m

39 12 2 5

40 2 2 5
-17 9 6 0

22 2 6 5

We cannot subtract 960 m from 225 m. So, convert 1 km = 1000 m

∴ 22 km 265 m

(5) 35 kg 150 g – 26 kg 470 g

Solution:

kg gm

34 1 1 5 0

35 1 5 0
-26 4 7 0

8 6 8 0

We cannot subtract 470 gm from 150 gm. So, convert 1 kg = 1000gm

∴ 8 kg 680 gm

(6) 46 l 200 ml – 38 l 750 ml

Solution:

l ml

45 1 2 0 0

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$$\begin{array}{r} 46 \quad 200 \\ - 38 \quad 750 \\ \hline 7 \quad 450 \end{array}$$

We cannot subtract 750 ml from 200 ml. So, convert 1 l = 1000 ml

$\therefore$ 7 l 450 ml

Word problems

Study the following examples.

Example (1) If a shopkeeper has 150 kg 500 g of rice and sells 75 kg 750 g, how much rice will be left?

kg	gm
149	1500
150	500
— 75	750
74	750

74 kg 750 g of rice is left.

Example (2) A can of milk has 20 l 450 ml of milk. Another can has 18 l 800 ml. How much milk is there in the two cans altogether?

l	ml
1	
20	450
+ 18	800
39	250

The total quantity of milk is 39l 250ml.

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Example (3) At a speed of 90 km per hour, what distance will a train cover in two and a half hours?

The speed of the train is 90 kmph. That is, it travels 90 km in one hour. It travels 90 more km in the second hour.

In the next half an hour, $90 \div 2 = 45$ km

The total distance travelled is $90 + 90 + 45 = 225$ km.

Example (4) If one dress requires 3 m 25 cm of cloth, how much do 4 dresses need?

Manju's method :

3 m 25 cm for the 1st dress

+ 3 m 25 cm for the 2nd dress

+ 3 m 25 cm for the 3rd dress

3 m 25 cm for the 4th dress

12 m 100 cm

1 m is 100 cm, therefore $12 + 1 = 13$ m

Kunal's method :

$$\begin{array}{r} \text{m} \quad \text{cm} \\ 3 \quad 25 \\ \times \quad 4 \\ \hline 12 \quad 100 \end{array}$$

12 m 100 cm = 13 m

Example (5)

If a wire that is 9 m 50 cm long is cut into pieces of 5 cm each, how many pieces will be made?

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$$9 \text{ m } 50 \text{ cm} = (900 + 50) \text{ cm}$$

To find out how many pieces of 5 cm can be made from a wire 950 cm long, let us use division.

190 pieces will be made.

$$\begin{array}{r} 190 \\ 5 \overline{) 950} \\ \underline{-5} \\ 45 \\ \underline{-45} \\ 000 \\ \underline{-0} \\ 0 \end{array}$$

Example (6) A play started at 30 minutes past 6 in the evening and finished two and three quarter hours later. What time did the play get over?

	Hr	Min	
	6	30	$75 \text{ min} = 60 \text{ min} + 15 \text{ min}$
+	2	45	$= 1 \text{ hr} + 15 \text{ min}$
	8	75	$8 \text{ hr} + 1 \text{ hr } 15 \text{ min} = 9 \text{ hr } 15 \text{ min}$

The play got over at 15 minutes past 9 at night.

Note : The units for length, mass and capacity are written in decimal form. This makes it easy to carry out addition and subtraction of length, mass and capacity.

Units of measuring time are not in decimal form. It is a little more difficult to carry out additions and subtractions of those quantities.

Additional Important Questions and Answers

Add the following:

(1) $12 \text{ km } 880 \text{ m} + 7 \text{ km } 620 \text{ m}$

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Solution:

$$\begin{array}{r} \text{m} \\ \text{km} \\ 1 \\ 12 \quad 880 \\ + 7 \quad 620 \\ \hline 20 \quad 500 \end{array}$$

$$880\text{m} + 620\text{m} = 1500\text{m}$$

$$= 1\text{km } 500\text{m}$$

$$\therefore 20\text{ km } 500\text{ m}$$

(2) ₹ 62, 45 paise + ₹ 37, 55 paise

Solution:

$$\begin{array}{r} \text{Pais} \\ \text{₹} \quad \text{e} \\ 1 \\ 62 \quad 45 \\ + 37 \quad 55 \\ \hline 100 \quad 00 \end{array}$$

$$45\text{ paise} + 55\text{ paise}$$

$$100\text{ paise} = 1\text{ ₹}$$

$$\therefore 100\text{ rupees}$$

Subtract the following:

(1) 15 m 15 cm – 4 m 65 cm

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Solution:

$$\begin{array}{r} \text{gm} \\ \text{kg} \end{array} \begin{array}{r} 14 \text{ m } 115 \text{ cm} \\ 15 \text{ m } 15 \text{ cm} \\ -4 \text{ m } 65 \text{ cm} \\ \hline 10 \text{ m } 50 \text{ cm} \end{array}$$

We cannot subtract 65 cm from 15 cm. So, convert 1 m = 100 cm

$\therefore$ 10 m 50 cm

(2) 29 kg 880 gm – 8 kg 900 gm

Solution:

$$\begin{array}{r} \text{gm} \\ \text{kg} \end{array} \begin{array}{r} 28 \text{ kg } 1880 \text{ gm} \\ 29 \text{ kg } 880 \text{ gm} \\ -8 \text{ kg } 900 \text{ gm} \\ \hline 20 \text{ kg } 980 \text{ gm} \end{array}$$

We cannot subtract 900 gm from 880 gm. So, convert 1 kg = 1000 gm

$\therefore$ 20 kg 980 gm



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Part 1

- Chapter 1- Roman Numerals (Problem Set 1)
- Chapter 2- Number Work (Problem Set 2)
- Chapter 2- Number Work (Problem Set 3)
- Chapter 2- Number Work (Problem Set 4)
- Chapter 2- Number Work (Problem Set 5)
- Chapter 2- Number Work (Problem Set 6)
- Chapter 3- Addition and Subtraction (Problem Set 7)
- Chapter 3- Addition and Subtraction (Problem Set 8)
- Chapter 3- Addition and Subtraction (Problem Set 9)
- Chapter 3- Addition and Subtraction (Problem Set 10)
- Chapter 3- Addition and Subtraction (Problem Set 11)
- Chapter 3- Addition and Subtraction (Problem Set 12)
- Chapter 3- Addition and Subtraction (Problem Set 13)
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- Chapter 4- Multiplication and Division (Problem Set 15)
- Chapter 4- Multiplication and Division (Problem Set 16)
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- Chapter 5- Fractions (Problem Set 22)
- Chapter 5- Fractions (Problem Set 23)
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- Chapter 9- Decimal Fractions (Problem Set 40)
- Chapter 9- Decimal Fractions (Problem Set 41)
- Chapter 9- Decimal Fractions (Problem Set 42)
- Chapter 10- Measuring Time (Problem Set 43)

Part 2.

- Chapter 8- Multiples and Factors (Problem Set 32)
- Chapter 8- Multiples and Factors (Problem Set 33)
- Chapter 10- Measuring Time (Problem Set 44)
- Chapter 10- Measuring Time (Problem Set 45)
- Chapter 11- Problems on Measurement (Problem Set 46)

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- Chapter 11- Problems on Measurement (Problem Set 47)
- Chapter 12- Perimeter and Area (Problem Set 48)
- Chapter 12- Perimeter and Area (Problem Set 49)
- Chapter 12- Perimeter and Area (Problem Set 50)
- Chapter 13- Three Dimensional Objects and Nets (Problem Set 51)
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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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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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