

Maharashtra Board Solutions Class 5-Maths

(Problem Set 43) - Part 2: Chapter 10-

Measuring Time

BOOK SOLUTIONS
CLASS 5
MATHS (PART 2)

CHAPTER 10
Measuring Time



Maharashtra Board Solutions→

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

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Maharashtra Board Solutions Class 5-Maths

(Problem Set 43) - Part 2: Chapter 10-

Measuring Time

Class 5: Maths Chapter 10 solutions. Complete Class 5 Maths Chapter 10 Notes.

Maharashtra Board Solutions Class 5-Maths (Problem Set 43) - Part 2: Chapter 10- Measuring Time

Maharashtra Board 5th Maths Chapter 10, Class 5 Maths Chapter 10 solutions

Important Questions and Answers.

Question 1.

Write the time shown in each clock in the box given below it.



(1)

Answer:

25 minutes past 2

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(2)

Answer:

50 minutes past 7



(3)

Answer:

5 minutes past 8



(4)

Answer:

40 minutes past 4

Question 2.

Draw the hands of the clock to show the time given in the box.



(1)

Four-thirty

Answer:

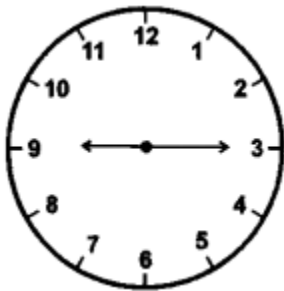




(2)

Quarter past nine

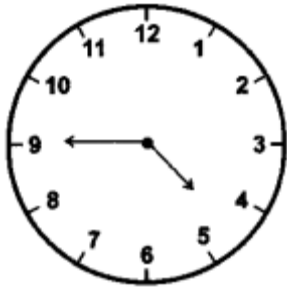
Answer:



(3)

Quarter to five

Answer:



(4)

20 minutes past 11

Answer:



Question 3.

If a bus that leaves Nashik at 5 o'clock in the morning reaches Pune that same day at ten-thirty in the morning, how long does the journey take?

Solution:

Min.

Hrs.

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$$\begin{array}{r} 10 \quad 30 \\ - 5 \quad 00 \\ \hline 5 \quad 30 \end{array}$$

∴ Bus took 5 hrs 30 min

Question 4.

A play that was to start at nine fifteen at night was delayed by half an hour because of a power outage. What time did the play start?

Solution:

∴ Play started 9:45 at night

Question 5.

If a train leaves Mumbai at ten-fifteen at night and reaches Nagpur at one forty the next afternoon, how long does the journey take?

Solution:

Ten fifteen at night to 12 mid night is

Hrs.	Min.
------	------

12	-10	00	15
----	-----	----	----

1	45
---	----

12 mid night to next 1:40 afternoon = 13 hours 40 minutes

Total times

Hrs.	Min.
------	------

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$$\begin{array}{r} 1 \quad 45 \\ + 13 \quad 40 \\ \hline 15 \quad 25 \end{array}$$

∴ Total time of the journey is 15 hrs. 25 min:

Learning about seconds

This clock is showing 5 minutes past 3. We know this because of the position of the hour and minute hands. There is another hand in the picture called the second hand. This hand moves swiftly. The second is a very small unit used to measure time less than a minute.

The face of a clock is a circle divided into 60 equal parts. When the second-hand moves one part, it takes one second. When it completes one round of the clock face, it moves across all 60 parts. This takes 60 seconds. In the same time, the minute hand moves one place, which means that one minute is over.

It means that, 1 minute is equal to 60 seconds.

1 minute = 60 seconds

The clock in the picture above shows 5 minutes and 50 seconds past 3.



20 minutes and 10 seconds past 7

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15 minutes and 40 seconds past 10

Seconds are used on various occasions such as measuring temperature with a thermometer, measuring heartbeats or timing a race.

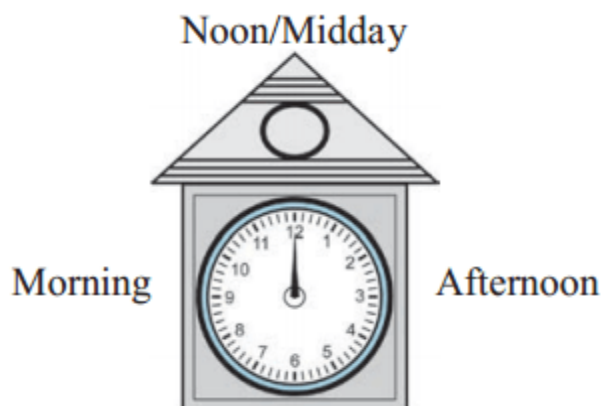
Ante meridiem and post meridiem

Shripati was sitting at home at night, tired. There were guests at home. They asked, “You must have worked very hard in the fields today. How long were you working?”

Shripati said, “I was in the field from six o’clock to eight o’clock.” Someone asked, “You’re this tired even though you were in the field for only two hours?”

Shripati said, “No, no, I was in the field from 6 in the morning till 8 at night! Now tell me how many hours I spent in the field.”

The guests had not understood what Shripati said at first. To avoid such mistakes, it has been internationally agreed that as the clock strikes 12 midnight, one day ends and the next day begins. From that moment on, the clock shows the time for the next day. When one hour passes after 12 midnight, it is 1 o’clock. After that, it is 2, 3, 4, ..., 12 o’clock in serial order. After 12 noon, again it is 1, 2, 3, ..., 12 o’clock in serial order. The time before 12 noon is stated as ante meridiem or am. The time after 12 noon is stated as post meridiem or pm.



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This method of measuring time is called the 12 hour clock.

Shripati was in the field from 6 am to 8 pm or for 14 hours.

The 24 hour clock

The 24 hour clock is used to avoid this division of the day into ante meridiem and post meridiem. This method is used in timetables for trains, planes, buses and long distance boat journeys. In this method, instead of starting again from 1, 2, 3 after 12 noon, we continue with 13, 14, 15,...,24. In a 24 hour digital watch, time is shown only in the form of numbers. It does not have hands. In such a clock, 20 minutes past 6 in the morning is shown as '6:20' and 20 minutes past 6 in the evening is shown as '18:20'.

23:59 means 59 minutes after 23 and one minute later, 24 hours will be complete. The digital clock will show this time as 00:00 at midnight and the day will change. At that time, a 12 hour clock shows 12 midnight.

Study the following table to see how different times of the day are shown in the 12 hour and 24 hour clocks.

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12 hour clock	24 hour clock	12 hour clock	24 hour clock
0:05 am	 00:05	12:05 pm	 12:05
5 minutes past 12 midnight		5 minutes past 12 noon	
1:20 am	 01:20	1:20 pm	 13:20
20 minutes past 1 during night time		20 minutes past 1 in the afternoon	
6:55 am	 06:55	6:55 pm	 18:55
55 minutes past 6 in the morning		55 minutes past 6 in the evening	
10:15 am	 10:15	10:15 pm	 22:15
15 minutes past 10 in the morning		15 minutes past 10 in the evening	
12:00	 12:00	12:00	 00:00 means 24:00
12 noon		12 midnight	

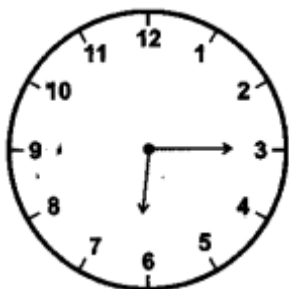
The timetables of some trains going from Badnera to Nagpur are given below. Observe the use of the 24 hour clock in the timetable.

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Name of the train	Train number	Departure time	Arrival time
Howrah Mail	12809	07:45	11:05
Shalimar Express	18024	09:45	13:10
Mumbai Mail	21028	13:05	17:20
Malda Town Express	13426	23:10	01:55

Additional Important Questions and Answers

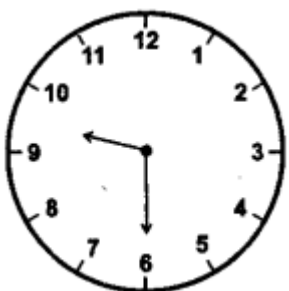
Write the time shown in each clock in the box given below it.



(1)

Answer:

15 minutes past 3



(2)

Answer:

30 minutes past 9

Draw the hands of the clock to show the time given in the box.

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(1) 5 minutes to four

Answer:



(2) 35 minutes past to 2

Answer:



(3) Sujata left home 6:30 and returned at 11. How much time did she spend away from home?

Solution:

	Min*
Hrs.	

11	00
– 6	30
4	30

∴ 4 hrs. 30min. spent away from home.

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(4) A speech that started at 4:20 in the afternoon ended at 5:45. How long was the speech?

Solution:

	Hrs.	Min.
--	------	------

5	4.5
+ 4	20

1	25
---	----

∴ Speech was for 1 hr. 25 min.



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Class 5 Maths

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)
- Chapter 4- Multiplication and Division (Problem Set 14)
- Chapter 4- Multiplication and Division (Problem Set 15)
- Chapter 4- Multiplication and Division (Problem Set 16)
- Chapter 5- Fractions (Problem Set 17)
- Chapter 5- Fractions (Problem Set 18)
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- Chapter 5- Fractions (Problem Set 20)
- Chapter 5- Fractions (Problem Set 21)

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- Chapter 5- Fractions (Problem Set 22)
- Chapter 5- Fractions (Problem Set 23)
- Chapter 6- Angles (Problem Set 24)
- Chapter 6- Angles (Problem Set 25)
- Chapter 6- Angles (Problem Set 26)
- Chapter 6- Angles (Problem Set 27)
- Chapter 7- Circles (Problem Set 28)
- Chapter 7- Circles (Problem Set 29)
- Chapter 7- Circles (Problem Set 30)
- Chapter 7- Circles (Problem Set 31)
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- Chapter 8- Multiples and Factors (Problem Set 35)
- Chapter 9- Decimal Fractions (Problem Set 36)
- Chapter 9- Decimal Fractions (Problem Set 37)
- Chapter 9- Decimal Fractions (Problem Set 38)
- Chapter 9- Decimal Fractions (Problem Set 39)
- 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)
- Chapter 14- Pictographs (Problem Set 52)
- Chapter 15- Patterns (Problem Set 53)
- Chapter 16- Preparation for Algebra (Problem Set 54)
- Chapter 16- Preparation for Algebra (Problem Set 55)
- Chapter 16- Preparation for Algebra (Problem Set 56)

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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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