



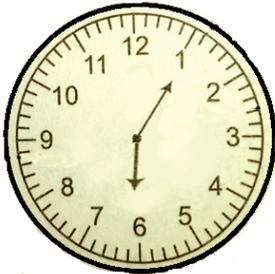
## Lesson-14

## Time

Ankita and Ankur were talking about who gets up early from bed.



I wake up at 10 minutes past 6



I wake up at 5 minutes before you wake up



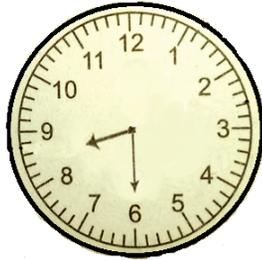
How do you count the minutes in the clock ?



The number of lines the minute hand crosses after 12 is the total count of minutes. Look at the clock. The minute hand is in 3. That means from 12 upto 3, there are 15 lines. So that time is 15 minutes past 5.



Let us look at the time Ananya goes to school



30 minutes past 8



Let us look at the time Ankur's school is over



30 minutes past 2

Let us learn : In a clock the minute hand is longer than the hour hand.

Sangita, Raktim and Rahim are reading the time in a clock. Put a ✓ on who is reading the time correctly.

Time	Sangita	Raktim	Rahim
	12.20	12.04	4.00
	6.08	6.40	8.00
	10.25	10.05	4.50

**Draw the minute hand and hour hand in the clocks according to the time given below**



4:25



3:40



6:45



2:25



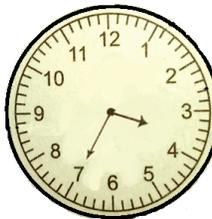
11:15

**Look at the clocks and write how much time minute hand will take to move**

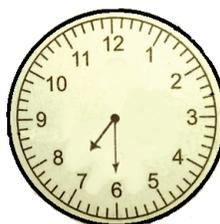


From 5 minutes past 5 to 20 minutes past 5

15 minutes



From 10 minutes past 3 to 35 minutes past 3



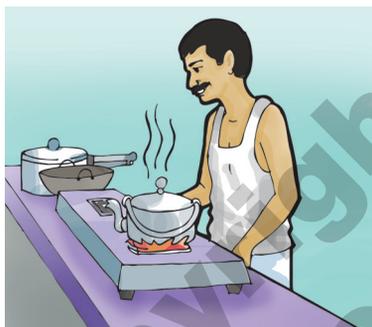
From 20 minutes past 7 to 30 minutes past 7

## Project

All India Radio broadcasts the time of sunrise and sunset everyday. Record the time for one week as per table given below

Month.....		
Day	Time of sunrise	Time of sunset

How much time is needed to do the following works



To boil 1 litre of water



To clean your study table



To take a bath



To cook dinner



To play a football match



To go to the market from your house

Ask your friend to look at the time you took



Standing on one foot



Skipping without stopping



Saying koo-koo-koo without stopping

## Ishaan and his father in the railway station

During summer vacation Ishaan and his father decided to go to Ishaan's aunt's house by train. They reached the station at 5.45 pm and found that the train had already left the station. They did not understand why the train left so early. They went to meet the station master—



Ishaan hurry up. The train will leave at 6.00 pm

Has the train left already? We have reached on time and the train was suppose to leave at 6.00



That time implies 6.00 in the morning. According to railway timing. The time at evening 6 o'clock is written as 18.00

Oh! We cannot go to my aunt's house today.



Yes Ishaan. It was my mistake because the Indian railways follow the 24 hour clock.

The time in your watch is given in the table below. Write the time according to the 24 hour clock.



Time by your clock (12 hour clock)	Time by a 24 hour clock
1 o'clock in the evening	13:00 hours
2 o'clock in the evening	14:00 hours
3 o'clock in the evening	..... hours
30 minutes past 4 in the evening	..... hours
6 o'clock in the evening	..... hours
10 o'clock in the evening	..... hours
12 o'clock at midnight	..... hours



### Solve the problems

- The train leaves at 9.30pm. How will this time be written in the railway ticket ?
- The time is 15 minutes past 8 in the evening in the 12 hourly clock, write the time as in the 24 hour clock.
- It is 9 o'clock in the morning. What will the time be in the 24 hour clock ?
- The time is 00.00 hours in the clock at night. What is the time as in the 12 hourly clock.






## Let us learn

In a 12 hour clock each time comes twice in a day. The time from 12 noon to 12 midnight is written as 'pm' and from 12 midnight to 12 noon as 'am'



## Write the time as 'am' or 'pm'

30 minutes past 7 in the morning = ..... 7.30 pm .....

30 minutes past 7 in the evening = .....

30 minutes past 11 in the morning = .....

5 o'clock in the morning = .....

2 o'clock in the afternoon = .....

3 o'clock in the afternoon = .....

9 o'clock in the morning = .....

## Use 'am' and 'pm' to write the time for the following words

When your school starts \_\_\_\_\_.

When midday meal is served \_\_\_\_\_.

When you go to play in the evening \_\_\_\_\_.

When you wake up in the morning \_\_\_\_\_.

When you take your dinner \_\_\_\_\_.



**A daily routine of Ranoj according to the 12 hour clock is given below. Now write the time according to the 24 hour clock.**

Daily routine of Ranoj (12 hour clock)	24 hour clock
Wake up at 6.00 am	6.00
Does exercise at 6.20 am	6.20
Drinks milk at 6.40 am	.....
Sits down to study at 6.45 am	.....
Takes bath at 8.00 am	.....
Goes to school at 8.45 am	.....
Comes home from school at 3.30 pm	.....
Goes to play at 4.30 pm	.....
Sits for prayers at 6.00 pm	.....

**Let us learn**

60 minutes = 1 hour

24 hours = 1 day

1 week = 7 day

30 days = 1 month

365 days = 1 year



*Instruction to the teacher : Teacher will discuss in detail with the students about the number of days in a week, number of minute in an hour etc.)*

## Jahnavi's birthday



Mother, today is Jahnavi's birthday. She will celebrate her next birthday after 4 years but I celebrate my birthday every year.

Jahnavi was born on 29 February. This day comes after every 4 years. When a year has 29 days in the month of February that year has 366 days. One day more than the normal 365 days. This year is called the leap year.



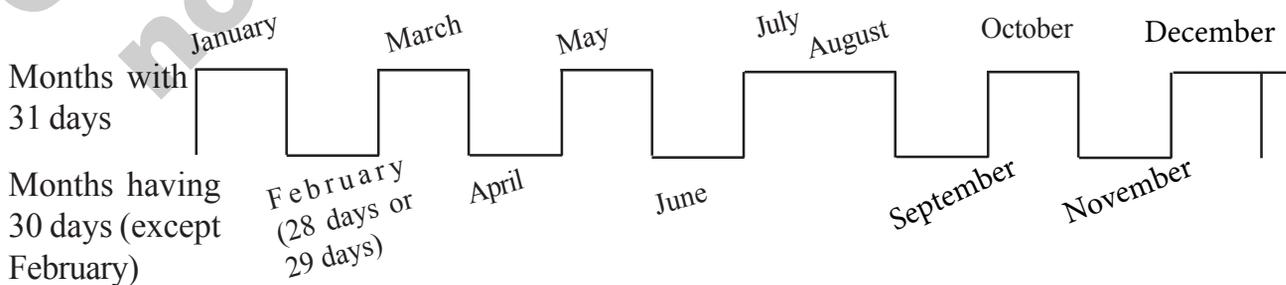
During leap year, do the other months also have more number of days?

No, the number of days in the other months remain the same. Only February has 29 days. That is why a leap year has 366 days.



### Let us learn

Which months have 30 days and which months have 31 days?



## Pritilata's visit to her grandmother's house

Pritilata went to visit her grandmother during summer vacation. Let us see how she spent her days in her grandmother's house.

- Pritipuspa went to play at 4.30pm. She played for 45 minutes and returned home. At what time did she return home ?

$$4.30 + 30 \text{ minutes} = 5.00 \text{ pm}$$

$$5.00 + 15 \text{ minutes} = 5.15 \text{ pm}$$

- Pritilata goes to sleep at 9.00pm and wakes up at 6 am. How many hours does she sleep ?

- Pritilata takes dinner with her grandmother at 8.20 pm. The time now is 8.00 pm. How much time is left for them to take dinner ?

Time for dinner 8.20 pm    8 hours 20 minutes

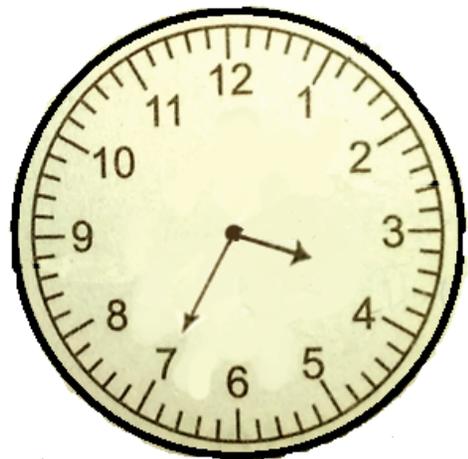
The time now is 8.00 pm    8 hours 00 minutes

Time left for dinner is = ....hours ...minutes



## How many days/times are there between

- 12th August to 9th October
- 16th January to 17th March
- 8.00 am to 11.00 am ?
- 2.00 am to 8.00 am ?
- 11.00 am to 3.00 pm ?
- 9.30 pm to 10.00 am ?



## One day in a shop

Sengseng and his sister went to a shop. They bought a bottle of jelly there. His sister looked at the date written in the bottle. The date of production was written as 4th March, 2018. As written in the bottle the contents be have to finished during 6 months. They went to the shop on 4th July, 2018. So, in how many days they have to finish the jelly ?

## Match the time with the clock

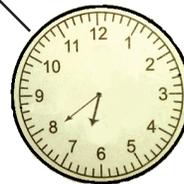
40 minutes past 6 o'clock



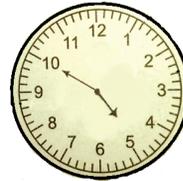
50 minutes past 4 o'clock



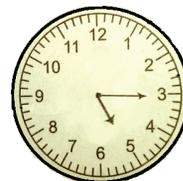
5 minutes past 6 o'clock



15 minutes past 6 o'clock



20 minutes past 12 o'clock



## Mental Arithmetic

- What is the largest number consisting of 9,3,6 ?
- What is the smallest number consisting of 4,5,8 ?
- What is the largest number between 519 and 529 ?
- How much paise is there in Rupees 10 ?
- Rima drew a circle of radius 5 cm. What is the diameter of the circle?
- What is the number when 100 is added to 899 ?
- Rubul went to the market with Rupees 200. He bought vegetables with Rupees 90 and biscuit with Rupees 60. How much rupees was left in his hand ?
- How much cloth will be left if 3 meter 50 cm will be cut from 4m 60cm piece of cloth ?
- Jayshree had 5 necklaces. If one necklace has 10 beads, what is the number of beads in 5 necklaces ?
- Mira has 10 numbers of black and white goats. If  $\frac{1}{2}$  of the goats are black then what is the number of white goats ?
- Imanual had 27 marbles. If he divided the marbles with his four friends then how many marbles will each one of them get and how many marbles will be left ?
- How much time is needed to fill up a 20 litre filter with a 2 litre water bottle?
- You went to the market at 10.15 in the morning and returned at 11.15. What is the duration of time you spent in the market?
- How many days are there in the month of March ?



**Tick [✓] mark in the right answer**

- The digit of one's place of a number is 4. The digit of ten's place is one more than the digit of one's place. The digit of hundred's place is two less than the digit of ten's place. The number is —  
(A) 296 (B) 354 (C) 324 (D) 513
- The one's place of a number is 5. The digit of ten's place is more than 3 of the digit of one's place. The number is —  
(A) 75 (B) 65 (C) 85 (D) 55
- The smallest number is —  
(A) 800 (B) 500 (C) 900 (D) 100
- The smallest number consisting of 3,2,0 is —  
(A) 230 (B) 203 (C) 320 (D) 23
- The sum of place value and face value of 8 in the number 785 is —  
(A) 80 (B) 58 (C) 88 (D) 85
- What is the number when 999 is subtracted from 1000  
(A) 10 (B) 1 (C) 100 (D) 99
- 10 past 15 in the noon is  
(A) 10.45 am (B) 10.15 pm (C) 10.15 am (D) 10.30 am
- Quarter to 15 at night is  
(A) 11.45 pm (B) 11.45 am (C) 12.15 pm (D) 12.15 am
- Abraham goes to school at 7.45 am and reach school at 8.20 am. How many times he needed to reach school ?  
(A) 10 minute (B) 45 minute (C) 25 minute (D) 35 minute



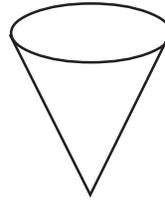
- If the date of one Saturday is 9 then the date of next Saturday will be.  
(A) 13 (B) 14 (C) 15 (D) 16
- The time needed by the minute hand to turn one round is  
(A) 12 hour (B) 1 hour (C) 24 hour (D) 6 hour
- Jacob played 2 hours in the afternoon. If he finished playing at 5 pm then when did he started to play?  
(A) 4.00 pm (B) 3.00 pm (C) 3.25 pm (D) 4.00 am
- How much time does the minute hand needs to reach 8 from 6 ?  
(A) 5 minutes (B) 10 minutes (C) 30 minutes (D) 1 minute
- How many corners are there in a cylinder ?  
(A) 0 (B) 1 (C) 2 (D) 3
- A cube has ..... surface, .....sides, and ..... corners.  
(A) 8 nos of surfaces, 6 nos of corners and 12 nos of sides  
(B) 6 nos of surfaces, 8 nos of corners and 12 nos of sides  
(C) 12 nos of surfaces, 6 nos of corners and 4 nos of sides  
(D) 6 nos of surfaces, 12 nos of corners and 4 nos of sides
- Multiply  
(A)  $35 \times 10 = ?$  (B)  $42 \div 1 = ?$   
(C)  $0 \div 20 = ?$  (D)  $330 - 215 = ?$
- If a pen costs Rs 12, what is the cost of 3 pens?
- What is the dividend when four ten's is divided by 4 ? .....
- What is the dividend and what is the remainder when 56 is divided by 7 ? .....



- Which of the following numbers are not even ?

112 , 228 , 157 , 570

- What is the name of the shape ?



- Tick (✓) the odd numbers

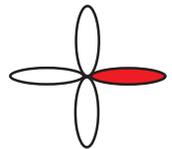
142 , 133 , 121 , 142 , 97

- How many 50 paise coins are there in Rs 5 ?
- How many minutes are there in 1 hour ?
- How many centimeter are there in 5 meter ?
- Henry bought 800 gm potatoes from market. How many potatoes will needed by Henry to buy so that the weight of potatoes will be 1kg ?
- Write the equivalent fraction of  $\frac{1}{2}$  ?
- If a banana costs Rs 5 then what is the costs of 2 dozen bananas ?
- What is the perimeter of a squared table of 2 meter length of each sides ?
- Write the fraction of the coloured parts of the following pictures










- Write the time shown below as the time 24 hour clock



am



pm



am



pm



**Class - IV**  
**Lesson wise learning outcome**

Lesson	Learning area	Learning outcome
1	Shapes and Spatial understanding	<p><b>The learner :</b></p> <ul style="list-style-type: none"> <li>● acquires understanding about shapes around her/him</li> <li>● finds out shapes that can be used for tiling.</li> <li>● draws cube/ cuboids using the given nets.</li> <li>● shows through paper folding/ paper cutting, ink blots, etc. the concept of symmetry by reflection.</li> <li>● draws top view, front view and side view of simple objects.</li> </ul>
2	Numbers	<ul style="list-style-type: none"> <li>● read and write numbers upto 10,000</li> <li>● addition and subtraction within 999</li> <li>● applies operations of numbers in daily life</li> </ul>
3	Measurement (Length)	<ul style="list-style-type: none"> <li>● converts metre into centimetre and vice-versa.</li> <li>● estimates the length of an object/distance between two locations</li> <li>● creates and solves simple real life situations/ problems including length by using the four operations.</li> </ul>
4	Money	<ul style="list-style-type: none"> <li>● creates and solves simple real life situations/ problems including money by using the four operations.</li> </ul>
5	Circle	<ul style="list-style-type: none"> <li>● identifies the centre, radius and diameter of the circle.</li> </ul>
6	Multiplication	<ul style="list-style-type: none"> <li>● multiplies 2 and 3 digit numbers</li> </ul>
7	Data handling	<ul style="list-style-type: none"> <li>● represents the collected information in tables and bar graphs and draws inferences from these.</li> </ul>
8	Division	<ul style="list-style-type: none"> <li>● divides a number by another number using different methods</li> <li>● pictorially (by drawing dots)</li> <li>● equal grouping</li> <li>● repeated subtraction</li> <li>● by using inter-relationship between division and multiplication</li> </ul>

Lesson	Learning area	Learning outcome
9	Pattern	<ul style="list-style-type: none"> <li>● identifies the pattern in multiplication and division (up to multiple of 9).</li> <li>● observes, identifies and extends geometrical patterns based on symmetry.</li> </ul>
10	Weight	<ul style="list-style-type: none"> <li>● estimates weight of various objects and verifies them by actual measurement.</li> <li>● creates and solves simple real life situations/ problems including mass by using the four operations.</li> </ul>
11	Fraction	<ul style="list-style-type: none"> <li>● identifies half, one-fourth, three-fourths in a given picture (by paper folding) and also in a collection of objects.</li> <li>● represents the fractions as half, one-fourth and three-fourths by using symbols <math>\frac{1}{2}, \frac{1}{4}, \frac{3}{4}</math> respectively.</li> <li>● shows the equivalence of <math>\frac{1}{2}</math> and <math>\frac{2}{4}</math> and other fractions.</li> <li>● works with fractions</li> </ul>
12	Volume	<ul style="list-style-type: none"> <li>● estimates the volume of liquid and verifies them by actual measurement.</li> <li>● creates and solves simple real life situations/problems including volume by using the four operations.</li> </ul>
13	Area	<ul style="list-style-type: none"> <li>● explores the area and perimeter of simple geometrical shapes (triangle, rectangle, square) in terms of given shape as a unit like the number of books that can completely fill the top of a table.</li> </ul>
14	Time	<ul style="list-style-type: none"> <li>● reads clock time in hour and minutes and expresses the time in a.m. and p.m.</li> <li>● relates 24 hr clock with respect to 12 hr clock.</li> <li>● calculates time intervals/ duration of familiar daily life events by using forward or backward counting/ addition and subtraction</li> </ul>

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# A few precautionary measures to be taken in order to avoid road accidents

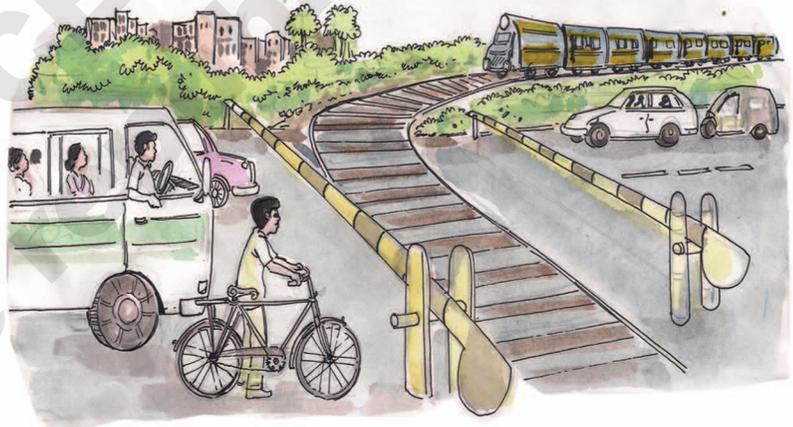
## While walking on the road—

- Always walk on your left side
- While crossing the road always look to your right and left and then cross.
- Walk on the footpath if there is one.
- At zebra crossing cross the road walking over the zebra lines.
- Use torchlight at night.
- Don't ride a bicycle carrying a pillion rider



## While crossing the railway level crossing—

- Don't cross the gate at the railway level crossing when it is closed.
- Don't cross the railway lines till the train passes.
- Don't cross the railway lines till both the gates of the railway level crossing are opened.



## While travelling by bus —

- Board the bus carefully.
- Don't spit outside.
- If there are lots of passengers make a queue and then board the bus.
- Don't travel by standing on the foot-board of the bus.
- Don't put your hands and legs or head outside the window.
- Alight from the bus when it stops properly.
- While alighting from the bus look to your right and left properly.



It is our responsibility and duty to help the children the old or the physically disabled persons walking on the road or crossing the road.

# Let's build a clean Assam

One step toward transparency



Clean life Healthy life  
My life is the life of the nation



Garbage should be disposed in dustbins or in a hole. Keeping the locality and surroundings clean is as important as keeping our houses and our school clean.