11   Tick - Tock goes the clock

How much time does it take for you to draw a flower? How much time do you take to take a bath? How much time do you spend in school? Find out how much time a basket maker takes to make a basket? How much time does a carpenter take to make a chair? How much time does a tailor take to make a kurta?

Different activities require different amounts of time. Think of various activities and fill the table given below.

Activities that require a few minutes	Activities that require hours	Activities that require days	Activities that require months
Taking a bath	Studying at school	Building a hut	Growing rice

How much time does it take you to wink? Think of other activities that require less than a minute of your time? _____

Movie Time

Surya is very excited today. Today is the last day of his exams and his parents promised him that they would be going to watch a movie in the evening.

(a)   He reaches his school at _____

(b)   He started writing his exam at _____

He had 2 hours to write the exam. While writing the exam he looked at the clock in his classroom to see how much time was left.

(c)   How much time did Surya have? _____

Surya finished writing his exam a few minutes before 12 o'clock and then he walked back home. After coming back from school he kept looking at the clock.

(d)   What is the time in the clock now? _____

(e)   Surya thought that they would leave after 3 hours for movie. At what time will Surya leave his house? Which of the clocks given below is showing this time? Encircle it.

Do This

1. (a)   What is the time on the clock? _____

    (b)   What was the time 5 hours ago?_____

    (c)   What will be the time after 4 hours?_____

2.   (a)   What is the time on the clock?   _____

    (b)   What was the time 3 hours ago?   _____

    (c)   What will be the time after 2 hours? _____

Bunty's Morning

Bunty is late to school. He looks at the clock while going to take a bath hurriedly. What is the time on the clock?

After having bath, Bunty looks at watch again and finds that the longer hand has moved to 3.

Bunty remembers his teacher telling him how to read the clock.

The smaller hand tells you the hour and the longer hand of the clock tells you the minutes. When the longer hand is at 1 it means 5 minutes have passed. When the hand is at 2, it means 10 minutes have passed. When it is at 3 it means 15 minutes have passed and when it is at 4 it means 20 minutes have passed and so on. How many minutes would have passed when the minutes hand is at 7? How many minutes would have passed when the minutes hand has completed one full circle and is at 12. So how many minutes are there in an hour?

Bunty : It is eight fifteen. I must hurry.

He quickly puts on his clothes and gobbles up the roti his mother gives him. He looks at the clock again while leaving home.

It is eight forty five. I will not reach school on time.

    (a)   Bunty reaches school 15 minutes late. At what time would Bunty have reached school? _____

Do This ▶

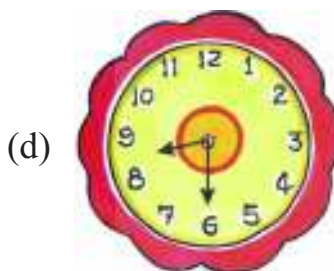1.   Which of these clocks is telling the correct time? Encircle it.

    (a)   2:05
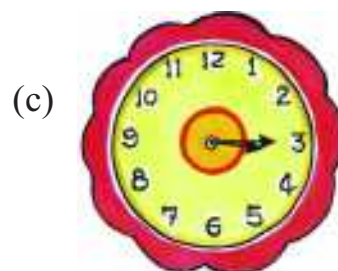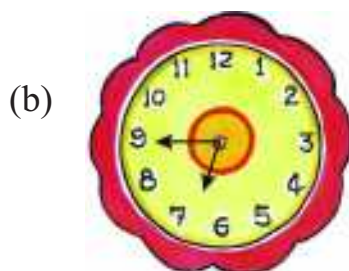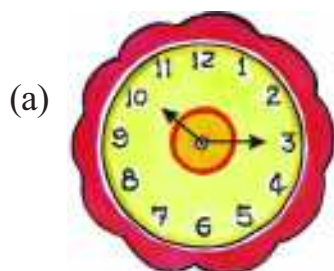

    (b)   4:15

    (c)   7:25

2. What is the time on these clocks?

(a)

(b)

(c)

(d)

(e)

(f)

3. Show the time on these clocks.
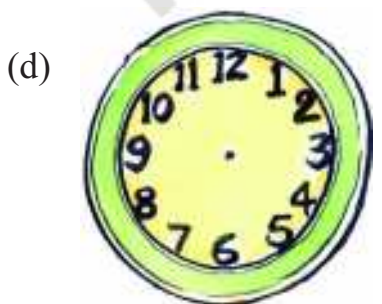
(a)

11:45

(b)

3:30

(c)

9:10

(d)

1:35

(e)

12:15

(f)

6:30
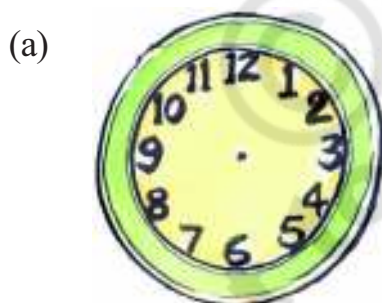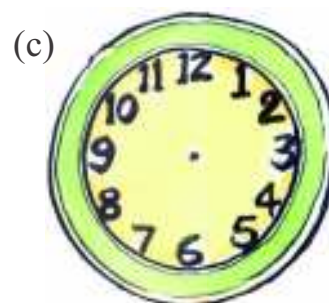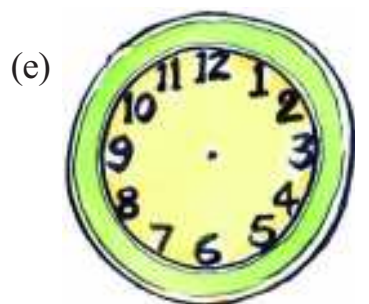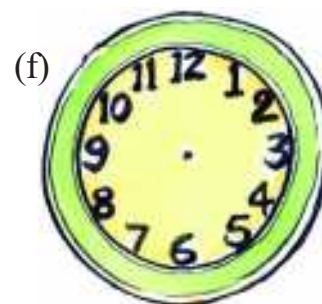
Try This

1. Does the hour hand move as the hour passes? How many minutes does the hour hand take for moving from one number to the other?

2. At what time do the minute and hour hand coincide with each other between
   (a) 6 o'clock and 7 o'clock   _____
   (b) 9 o'clock and 10 o'clock   _____
   (c) 3 o'clock and 4 o'clock   _____
   (d) 12 o'clock and 1 o'clock   _____

Now that we have learnt to read the clock. Let us read the calendar

Jaya teacher wanted to talk to her class 4 children about the calendar-2012. She gave each child in the class a list of the festivals in the year, which had been declared as school holidays.

She then asked them to look at the calendar in their class to see whether the holidays declared were on a school working day or a Sunday.

(a) Encircle the festival days on the calendar and also write which day of the week they are on in the space given below. Do any of the festivals fall on a Sunday?

Festival	Date	Day
Diwali	13 November	
Pongal	14 January	
Guru Nanak Jayanthi	17 November	
Christmas	25 December	
Eid	9 August	
Holi	27 March	

(b) Write the list of these festivals in the order in which they occur in the year in your notebook?

CALENDAR-2013

January

S	M	T	W	Th	F	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

February

S	M	T	W	Th	F	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28		

March

S	M	T	W	Th	F	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

April

S	M	T	W	Th	F	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

May

S	M	T	W	Th	F	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

June

S	M	T	W	Th	F	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

July

S	M	T	W	Th	F	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

August

S	M	T	W	Th	F	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

September

S	M	T	W	Th	F	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

October

S	M	T	W	Th	F	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

November

S	M	T	W	Th	F	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

December

S	M	T	W	Th	F	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Jaya teacher then started asking children various questions about the 2013 calendar. Do you know the answers to these questions?

(a)   How many months are there in a year? _____

(b)   Add the number of days of all the months to find out how many days there are in a year. _____

(c)   Which month comes after May? _____
Which month comes before December? _____

(d)   (i)   How many Thursdays are there in March? _____
On what dates do they occur? _____

(ii)   How many Sundays are there in March? _____
On what dates do they occur? _____

(e)   Encircle the following dates in the calendar and write what day they occur on.
(i)   Republic day   26 January   _____
(ii)   Children's day   14 November   _____
(iii)   Independence day   15 August   _____

(f)   If 31st December falls on Monday, on which day will 1st January of next year fall? What will be the date on the next Monday? _____

(g)   Is the first of every month, the same day? _____

(h)   (i)   The given calendar is for which year? _____

(ii)   Which is the next year? Which was the year before this year?_____

(iii)   In which year were you in class 1? _____

(i)   Study the calendar of February 2012.

(i)   How many days are there in February, 2012? _____

(ii)   How many days are there in February, 2013? _____

(iii)   How many days are there in February, 2014? _____

(iv)   Find out the next year in which February will have 29 days. _____

February-2012

S	M	T	W	Th	F	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29			

2012 is called a leap year because February has 29 days instead of 28. Leap year comes once in 4 years.

May 2014

(a) How many days are there in the month? ____

(b) How many Thursdays are there in the month? ____

(c) How many Sundays are there in the month? ____

(d) Can you have a month with 6 Mondays? Why?

S	M	T	W	Th	F	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

(e)

June-2014

S	M	T	W	Th	F	Sa

Now make the calendar for the next month.

Exercise

1. Omar is 9 years old. His father is 4 times his age. How old is Omar's father?
2. Sunanda went to her friends house at 5:15 in the evening. She came back home at 7:30 in the evening. How much time Sunanda has played with her friends?
3. Girish went to the field at 7:15 in the morning. He came back home at 1:45 in the afternoon. How much time Girish has spent in the field?
4. Santosh's family and friends were in a picnic from 10:30 in the morning to 4:20 in the evening. How much time did Santosh and his family spend at the picnic?
5. Write the time in the space given below the clock.