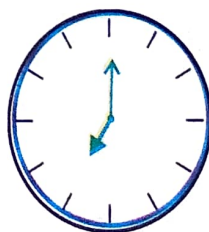
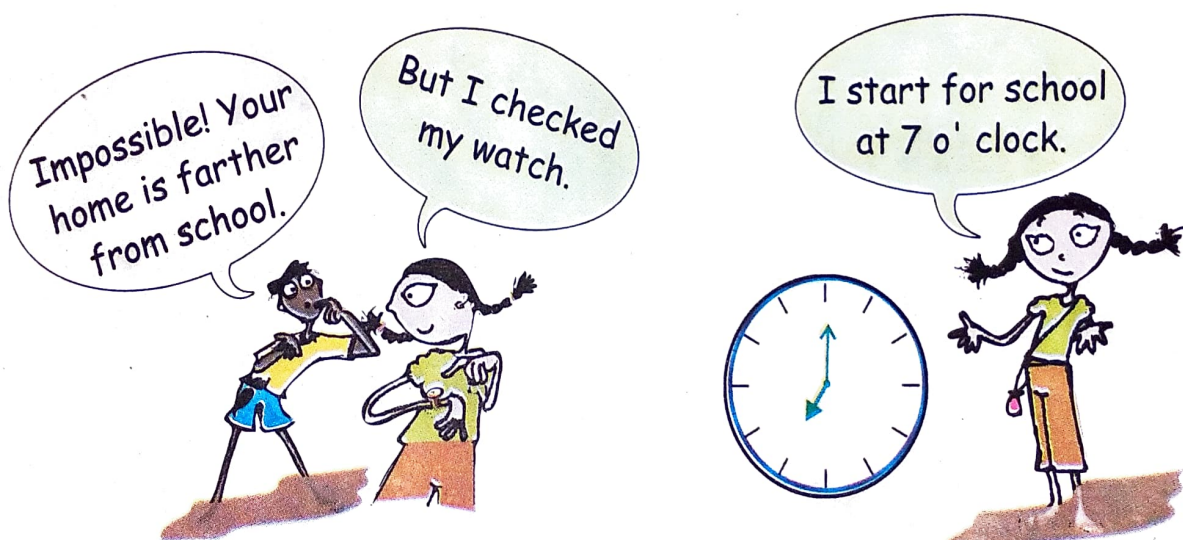


Tick-Tick-Tick



0417SCH04

Pamposh and Shazia were discussing whose home is farther from school.



I start for school at 7 o' clock.

When I reach school, the minute hand points at 2.



So shouldn't it be 2 minutes past 7 or 7:02?



You are wrong! You reach school at 7:10.

How?

Can you see these thin lines between the numbers?

Yes. So what?

The minute hand moves across 10 lines after 12. So it is 10 minutes past 7 or 7:10.

I start for school at 7.

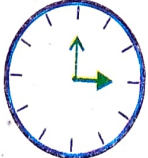
I reach at 7:05. See, the minute hand moves across 5 lines.



Cheeku

Bittu

Pinki



12:03

12:15

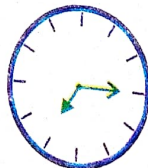
3:00



7:25

5:07

5:35

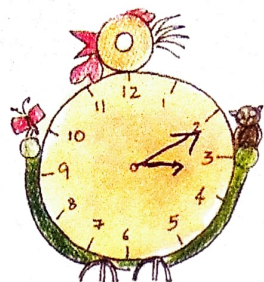


3:35

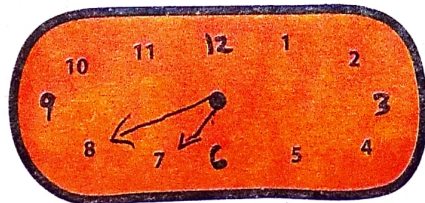
7:03

7:15

2) Show the following times in the clock:



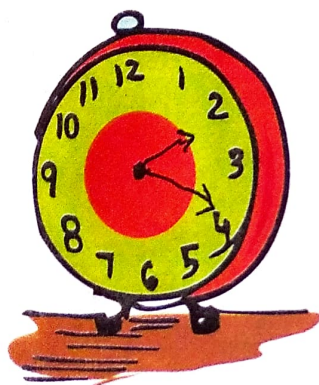
3:10



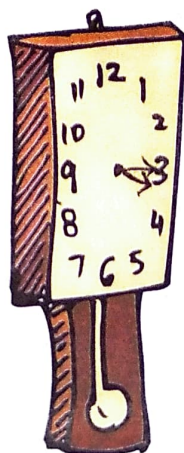
6:40



4:45



2:20



3:15



7:35

Do you like sky watching? If yes, then this one should interest you:

a) At what time does the sun rise at your place? 7:14 am



b) When does the sun set? 5:35 pm

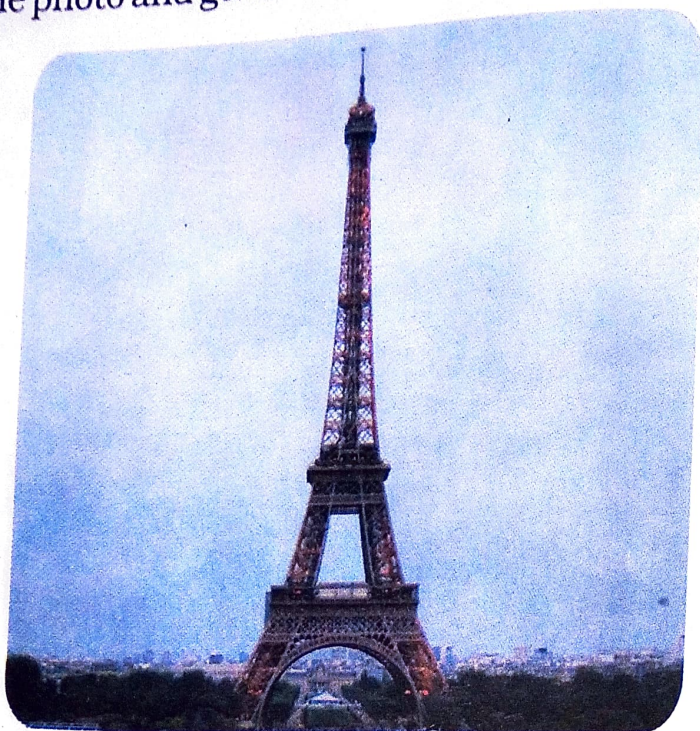


Does the sun rise and set at the same times every day? No

Look at a newspaper and see the time of sunrise and sunset in different months.



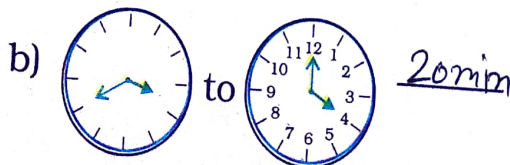
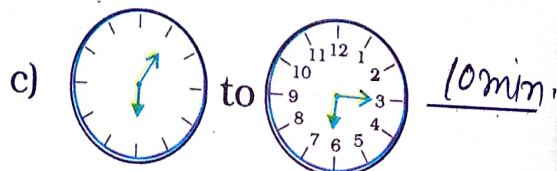
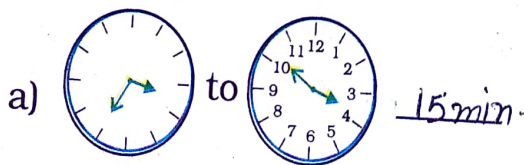
Look at the photo and guess the time at this place.



This photo was taken in Paris, France. In Paris the sun sets after 9 pm at night during summer. This photo was taken at night! But in winter it becomes dark here by 4 pm in the evening.

3) Find out

* How long will it take the minute hand to move from

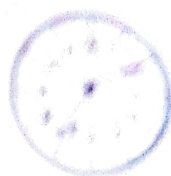


• Draw where the hands will be:

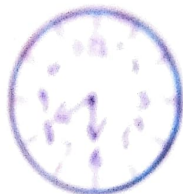
a) 20 minutes after
6 o'clock



c) 10 minutes after 10 o'clock



b) 30 minutes after
8 o'clock



d) 15 minutes after 1 o'clock



• How long does your school assembly take? 30 minutes

How long is your lunch
break? 1 hour long

How long is your games
period? 40 minutes long

Is it the same as all the other
periods? Yes



The games period
and lunch break
seem very short!
Aren't they?

No



* How many minutes can these activities take? Make a guess and then check at home.



Boiling 1 litre milk
takes about 6 min.



Filling a bucket
Takes about 3 min.



Sweeping your room
Takes about 6 min.

Activity Time

* In one minute, how many times can you —

a) Snap your finger

10 times

b) Skip a rope

35 times

c) Jump up and down

45 times

d) Blinking of eyelids

50 times

Write more such fun activities in this column.

* Here is another challenge for you. How long can you —

a) Speak non-stop 5 minutes

b) Stand on one leg 3 minutes

c) Sing 'Aaaaa....' without a break 2 min.

* How long do you take to —

a) Run a 50 metre race 5 minutes

b) Collect 50 pebbles from the ground 3 min.

c) Count 1 to 100 1 min.



AAAAA



Who is the winner?

* Let's look at a clock again! Solve this one —

- a) The minute hand started from '2'. How many minutes will it take to come back to '2' again? 60 min.
- b) What happens to the hour hand? Does it also move? How long will it take to move from one number to the next? Yes, it takes 1 hour to move from one number to the next.
- c) Look around you and list the activities that take about one hour to complete.

1. Cooking food
2. Watching news
3. Getting ready for fun
4. Completing homework
5. Playing football.

How long does it take to cook dinner at home?

More than an hour/less than an hour.

Ask your father if he can cook as fast as your mother does. Yes / No Yes

Which games take less than an hour to finish? Long, high Jump.

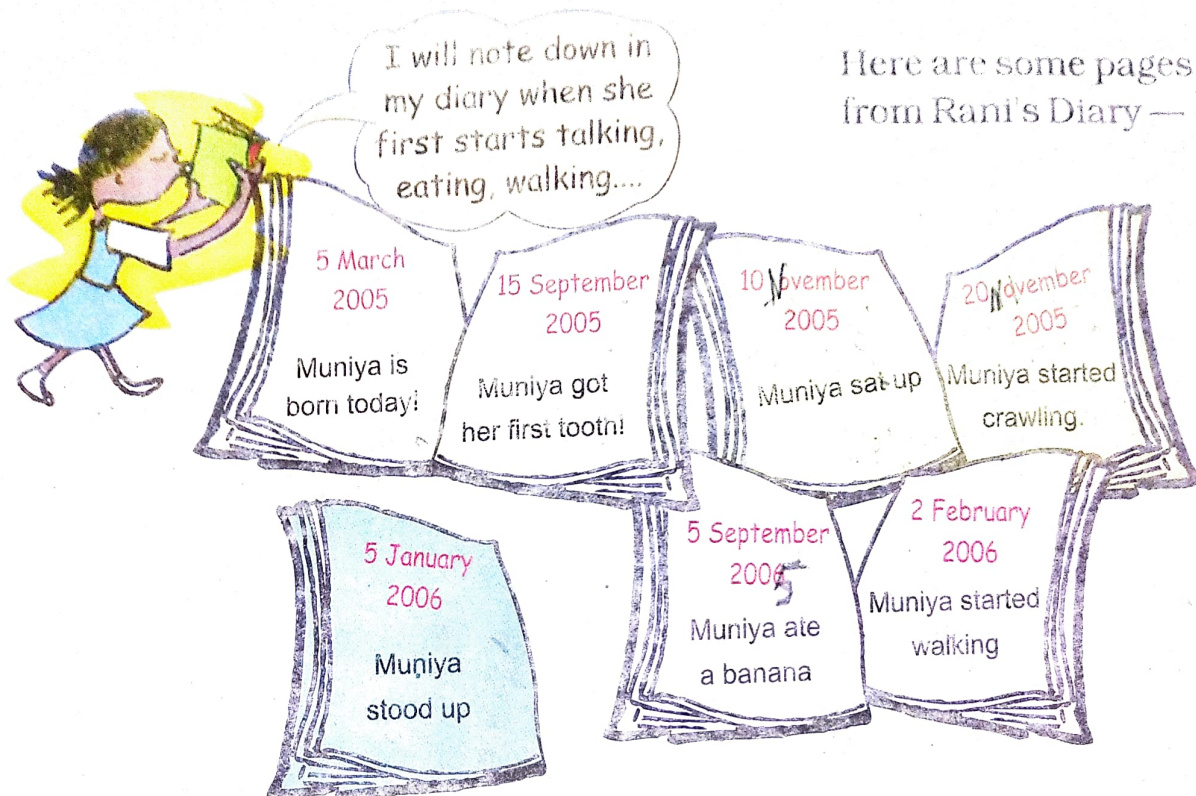
How long does a football match take?

Time duration of a football match is 90 min.

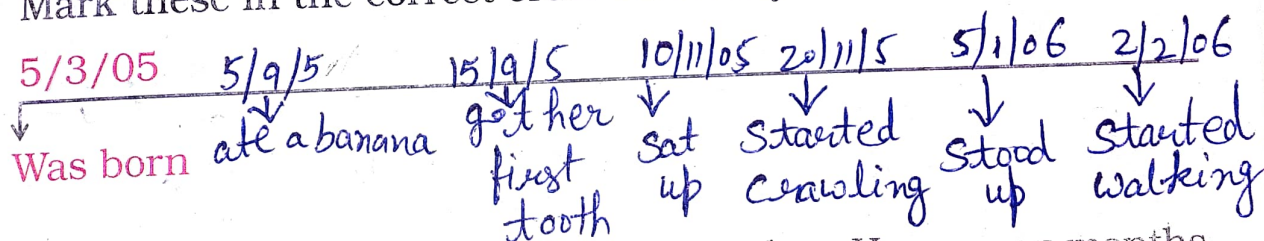


Children will enjoy doing activities to see all the things they can do in one minute. Observing activities at home will give them a sense of time and also help them value the effort of others.

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec



Mark these in the correct order on Muniya's Time Line.



* Muniya got her first tooth in September. How many months old was she then? How many months have passed from March to September? Muniya was 6 months 11 days old March to Sep. Six months passed.

* How old was Muniya, when

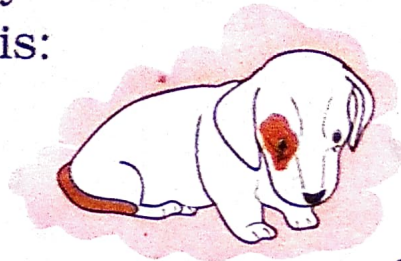
(a) she first sat up? 8 months 6 days

(b) she got her first tooth? 6 months 11 days ✓

* What did she do first — 1) walking/eating a banana?

2) crawling/standing? ✓

Rani had a pet puppy. After 2 weeks it opened its eyes. She watched it grow like this:



After 3 weeks it got its first teeth and started eating.



After 4 weeks — it started walking around but was still wobbling.



It had a full set of teeth by the time it was 7 months old.



After 1 year, it was a grown-up dog and got its own puppies.

- * Now make a time-line of this dog's life in your notebook.
- * Note the differences between Muniya and Rani's puppy:

Positions	Muniya (age)	Puppy (age)
Started walking	After 11 mon.	After 1 mon.
Ate food for the first time	6 months	3 weeks
Got the first tooth	6 months	3 weeks

Find out

Do all animals grow at the same speed?

Discuss about the growth of—

1. A hen
2. A cow
3. A bird



Draw pictures of the baby animal and the big animal.

Ans. A bird, a hen and a cow.

Here are the pictures of grandfathers posing for a photograph.
Who looks the oldest to you?



Elephant Appu's
grandfather
(95 years old)



Chuchoo rat's
grandfather
(2 years old)



Rani's
grandfather
(70 years old)

- * How much older is Appu's grandfather than Rani's grandfather? 95 years old.
- * Will Chuchoo's grandfather ever grow as old as Appu's grandfather? 70 years old $\rightarrow 95 - 70 = 25$ years.
- * How much younger is Chuchoo rat's grandfather than Rani's grandfather? $70 - 2 = 68$ years old.

This is a good opportunity for children and teachers to find out about the life spans and growth patterns of different animals. The idea is to compare and discuss without having to memorise any such information.

Now write which dates these stand for –

5/5/06 5 May 2006
 20/5/06 20 May 2006
 7/6/06 7 June 2006
 1/1/07 1 January 2007



Write these dates in numbers.

1 June 2006 1/6/06
 30 May 2006 30/5/06
 10 Aug 2007 10/8/07

- * How long did it take the letter to reach from Ajmer to Nagpur? 5 days
- * How many days will Atif spend at his Nani's place? 15 days.
- * Fill in the table:

	Dates		Number of days
	From	To	
Shabana's holidays	1 June	10 Aug.	70 days
Atif's holidays	1 May	30 June	60 days



Who has got longer holidays — Shabana or Atif?

- * Which long holidays do you get in school? Fill the table.

Occassion	Dates		Number of days
	From	To	
Summer holidays	1 st Ap.	1 st June	60 Days
Autumn Break	11 oct.	19 oct.	9 "
Winter Break	25 Dec.	10 Jan.	17 "
Holidays after the exam	5 th March	2 nd Ap.	29 "

On 15 May 2006 Chandran went to a shop to buy butter. He checked the packet to see if this butter was safe to eat.

It was written on the packet — **Best before 180 days from the date of packing.**

Then he checked the date of packing. It was 15/01/06.

Help him find out if he should buy this butter or not.

- In which month was the butter packed? 15 Jan 2006
- Which month will it be 180 days after 15/01/06? 13 July
- Can Chandran eat it on 15th May 2006? Yes

Do you ever check the date of packing of things you buy?

Have you seen medicines which have the **expiry date** written on them? It tells you after which date it is unsafe to take the medicine.

Find Out

- * Which are the other things that come with an expiry date?

On a cough syrup it was written:

Mfg. date 07/03

This shows it was made in July 2003.

Exp. date 07/05

This shows the month and year till when it is safe to take.

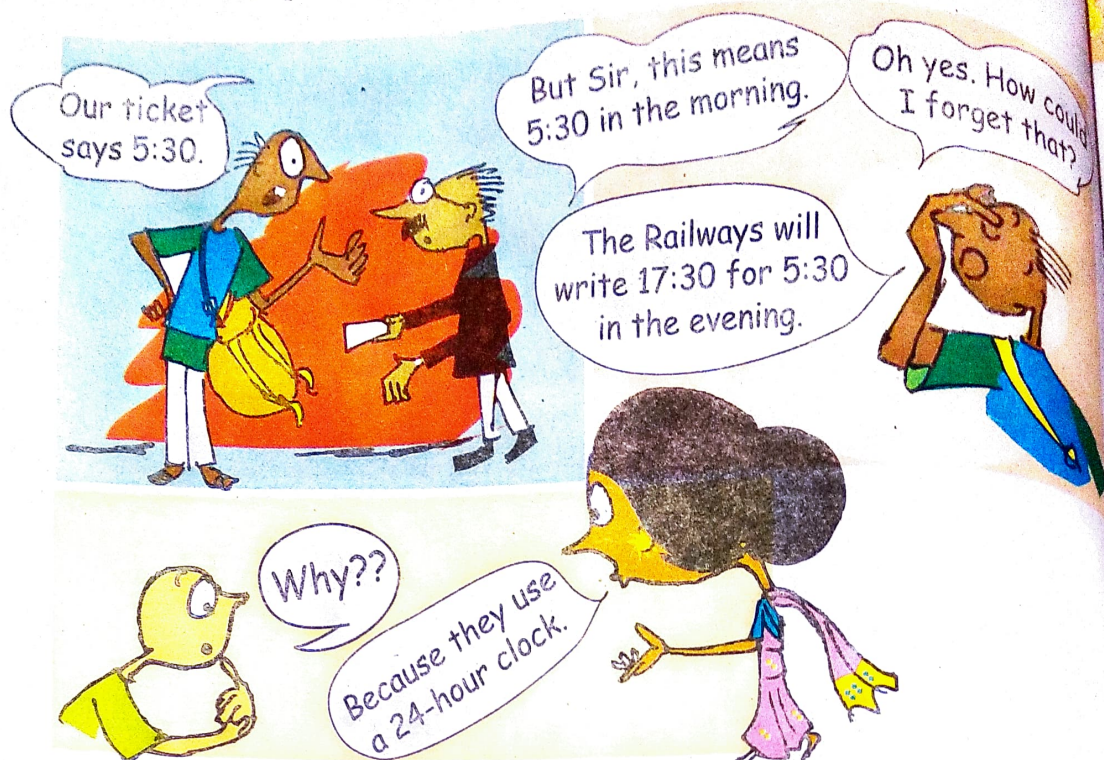
- * What month and year is written as 07/05? 7 July 2005

Would it be safe to take the cough syrup in September 2005? No, because its exp. date is July 2005.

Children are not expected to know the words manufacturing or expiry dates, but only to recognise these as symbols that show when the medicine is made and till when it is safe to take. Teachers could encourage children to read and observe more such dates on different products.



Actually the train had left at 5:30 in the morning! Tutu's parents were upset. They asked the station master —



Look at this chart. It tells the difference between your watch and a 24-hour clock. Try to complete it.



Time by your watch
(12-hour clock)

Time by a 24-hour clock

1 o' clock in the afternoon
2 o' clock in the afternoon
3 o' clock in the afternoon
3:30 in the afternoon
6 o' clock in the evening
9 o' clock in the evening
12 o' clock at midnight

13:00 hours
14:00 hours
15:00 hours
15:30 hours
18:00 hours
21:00 hours
24:00 hours

Can you tell why a 24-hour clock is called as?



Suppose a train leaves at 8:30 at night. The time written on the Railway ticket would be 20:30

In a 12-hour clock, each time comes twice in a day.
So 5:30 in the morning is 5:30 am.
5:30 in the evening is 5:30 pm.



What about 12:30 in the afternoon?



That is 12:30 pm.
After 12 o'clock at noon we use pm till midnight.

You must have noted the time of sunrise and sunset.

Write here using am and pm.

Time of Sunrise 6:00 am
Time of Sunset 6:30 pm



Where have you seen a 24-hour clock being used?

1. Railway station
2. Airport
3. Bus stand

