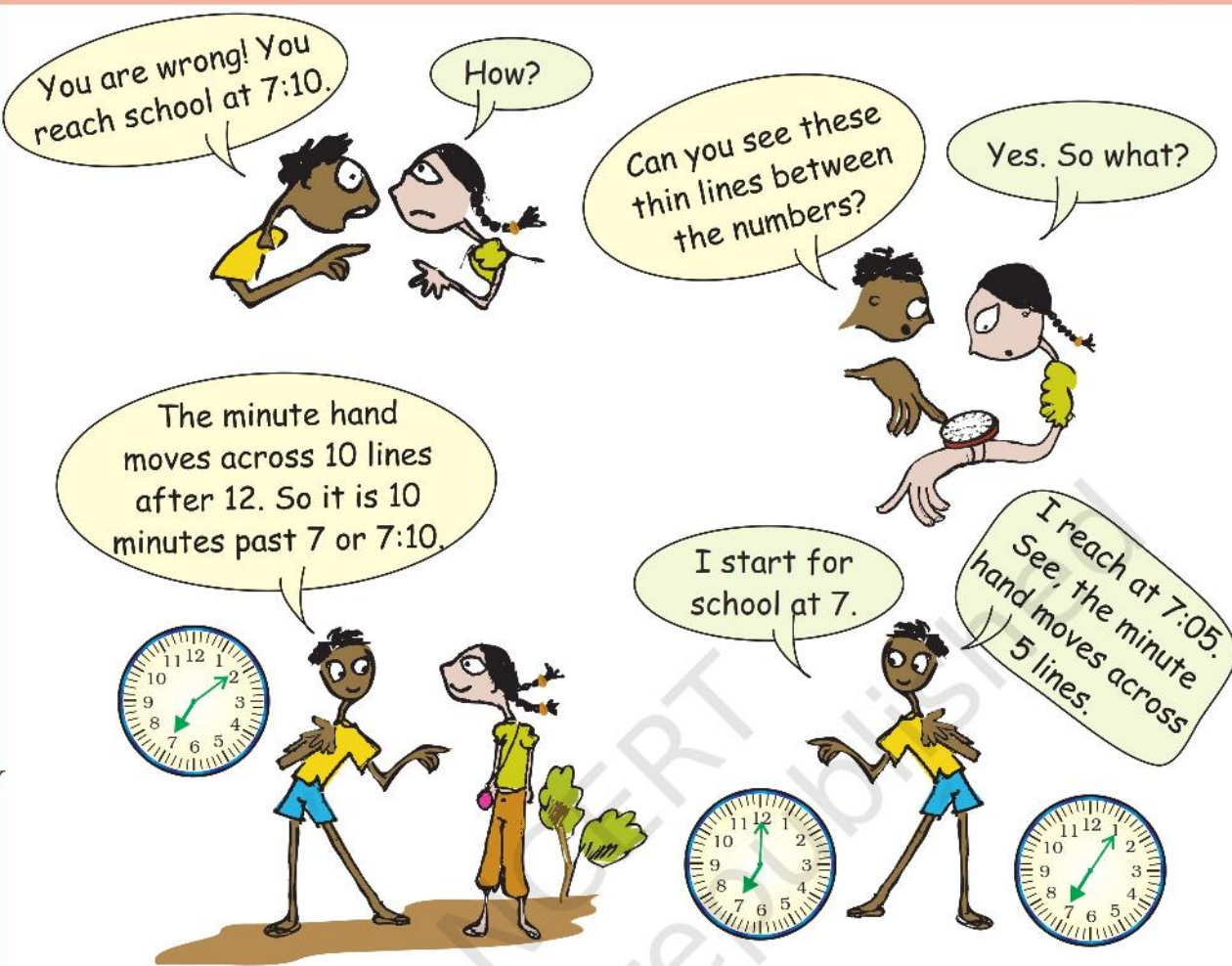# 4 Tick-Tick-Tick
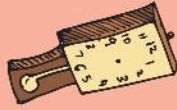
Pamposh and Shazia were discussing whose home is farther from school.

> I have to walk for 5 minutes to reach school.

> I just walk for 2 minutes to reach school.

> Impossible! Your home is farther from school.

> But I checked my watch.

> 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.
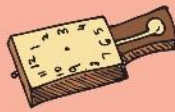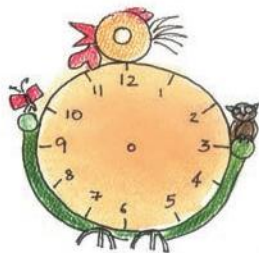
Practice Time

1) Three friends read time from a clock. Who is right?

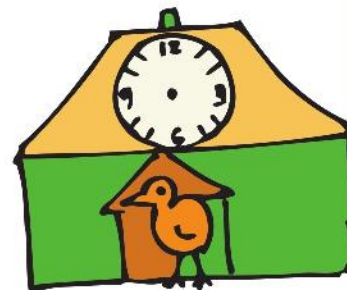|	Cheeku	Bittu	Pinki
	12:03	12:15	3:00
	7:25	5:07	5:35
	3:35	7:03	7:15

36

2) Show the following times in the clock:
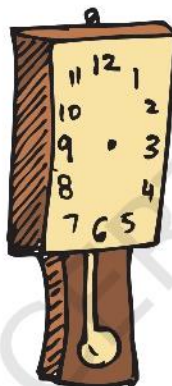
3:10
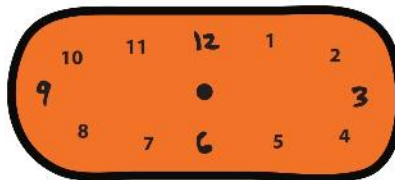
6:40

4:45

2:20

3:15

7:35

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

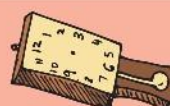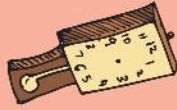a) At what time does the sun rise at your place? ———

b) When does the sun set? ———

Dose the sun rise and set at the same times every day?

Look at a newspaper and see the time of sunrise and sunset in different months.
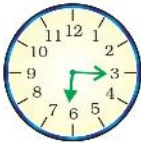
Look at the photo and guess the time at this place.
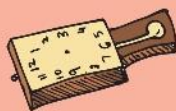
This photo was taken in Paris, France. In Paris the sun sets after 9 pm at night during summer. This photo was taken at night! But in winter it becomes dark here by 4 pm in the evening.

3) **Find out**

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

a) to _____

b) to _____

c) to _____

d) to _____

* Draw where the hands will be:

a) 20 minutes after
   6 o' clock
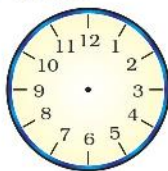
c) 10 minutes after
   7 o' clock
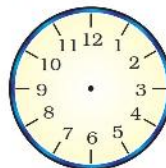
b) 30 minutes after
   8 o' clock
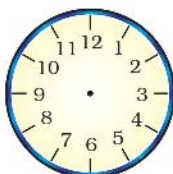
d) 15 minutes after
   5 o' clock
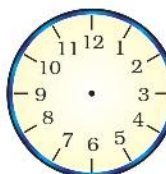
* How long does your school assembly take? _____

How long is your lunch
break? _____

How long is your games
period? _____

Is it the same as all the other
periods? _____

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

39
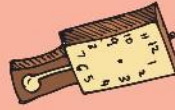
* How many minutes can these activities take? Make a guess and then check at home.

Boiling 1 litre milk
_____

Filling a bucket
_____

Sweeping your room
_____

Activity Time

* In one minute, how many times can you —

  a) Snap your finger   _____

  b) Skip a rope   _____

  c) Jump up and down   _____

  d) _____   _____

Write more such fun activities in this column.

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

  a) Speak non-stop _____

  b) Stand on one leg _____

  c) Sing 'Aaaaa....' without a break _____

  AAAAA

* How long do you take to —

  a) Run a 50 metre race _____

  b) Collect 50 pebbles from the ground _____

  c) Count 1 to 100 _____

  Who is the winner?

40

* 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? _____

b) What happens to the hour hand? Does it also move? How long will it take to move from one number to the next?

c) Look around you and list the activities that take about one hour to complete.

1. _____

2. _____

3. _____

4. _____

5. _____

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

Which games take less than an hour to finish? _____

How long does a football match take?

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.

Rani's Diary

I will note down in my diary when she first starts talking, eating, walking....

Here are some pages from Rani's Diary —

5 March 2005

Muniya is born today!

15 September 2005

Muniya got her first tooth!

10 November 2005

Muniya sat up

20 November 2005

Muniya started crawling.

5 January 2006

Muniya stood up

5 September 2006

Muniya ate a banana

2 February 2006

Muniya started walking

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

5/3/05 _____

Was born

✴ Muniya got her first tooth in September. How many months old was she then? How many months have passed from March to September? _____

✴ How old was Muniya, when

   (a) she first sat up? _____

   (b) she got her first tooth? _____

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

                    2) crawling/standing?

43
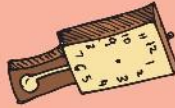
Rani had a pet puppy. After 2 weeks it opened its eyes. She watched it grow like this:

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		
Ate food for the first time		
Got the first tooth		

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.

Here are the pictures of grandfathers posing for a photograph. Who looks the oldest to you?
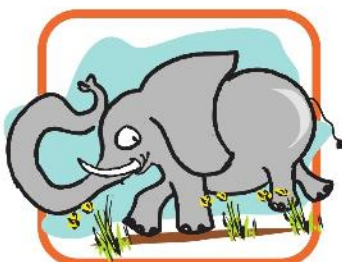
Elephant Appu's
grandfather
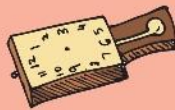(95 years old)
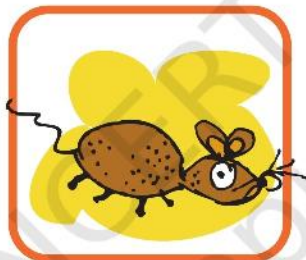
Chuchoo rat's
grandfather
(2 years old)

Rani's
grandfather
(70 years old)

✳ How much older is Appu's grandfather than Rani's grandfather? _____

✳ Will Chuchoo's grandfather ever grow as old as Appu's grandfather? _____

✳ How much younger is Chuchoo rat's grandfather than Rani's grandfather? _____

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.
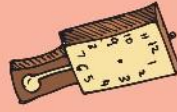
Holidays are Fun!

Atif's holidays had begun. He was very excited. He had made some wonderful plans and wanted to tell his cousin Shabana. So he wrote her a letter —

Ajmer
1/5/06

Dear Shabana aapa,

Hello!

How are you? I am fine here. Aapa, my holidays have started from today! I am going to my Nani's place on 5/5/06. I will be back on 20/5/06. My school will reopen on 30/6/06. When does your school close? Why don't you come here? We will have great fun!

Bye for now

Atif

Shabana who stays in Nagpur, got this letter on 6/5/06. She wrote back to Atif —

Nagpur
7/5/06

Dear Atif,

Hello!

I am doing well here. I got your letter yesterday. Happy holidays! My school will close on 1st June 2006. It will reopen on 10th August. I will go on a school trip to Goa and will return on 7/6/06. I will try to come to Ajmer after that. Bye
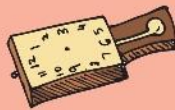
Shabana

Atif wrote his letter on 1/5/06. You remember how we write a date in numbers?

1/5/06 is 1 May 2006.

Now write which dates these stand for –

5/5/06   5 May 2006 _____

20/5/06   _____

7/6/06   _____

1/1/07   _____

Write these dates in numbers.

1 June 2006   _____

30 May 2006   _____

10 Aug 2007   _____

* How long did it take the letter to reach from Ajmer to Nagpur?_____

* How many days will Atif spend at his Nani's place? _____

* Fill in the table:

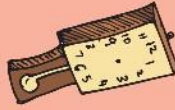|	Dates		Number of days
	From	To	
Shabana's holidays			
Atif's holidays			

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			
Autumn Break			
Winter Break			
Holidays after the exam			

47

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? _____
— Which month will it be 180 days after 15/01/06? _____
— Can Chandran eat it on 15th May 2006? _____
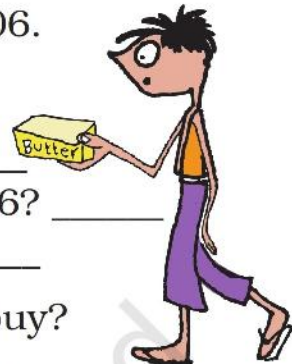
Do you ever check the date of packing of things you buy?

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 ? _____

Would it be safe to take the cough syrup in September 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.
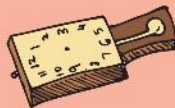
Tutun Missed the Train

Tutun's school had closed for the summer holidays. He went to his grandma's place. He met a lot of his cousins there. He was enjoying himself and didn't want to go back home.

Tutun, pack your bag. The train leaves at 5:30 in the evening.

Oh no! We are going back so soon! I wish we miss our train.

Tutun and his parents reached the station at 5:15. But guess what? They had actually missed the train!

Platform 4
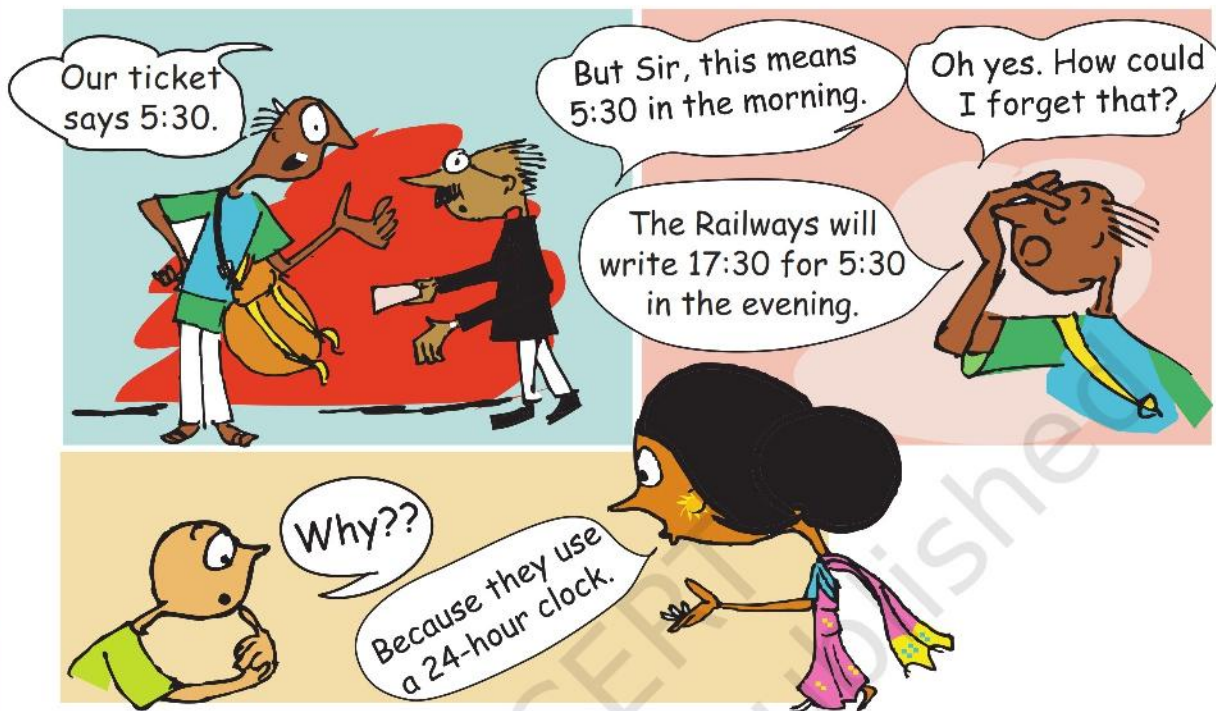
Hurray! That means I am not going back today.

Can you guess why they missed the train?

49
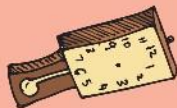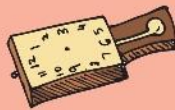
Actually the train had left at 5:30 in the morning! Tutun's parents were upset. They asked the station master —

Our ticket says 5:30.

But Sir, this means 5:30 in the morning.

Oh yes. How could I forget that?

The Railways will write 17:30 for 5:30 in the evening.

Why??

Because they use a 24-hour clock.

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	13:00 hours
2 o' clock in the afternoon	14:00 hours
3 o' clock in the afternoon	_____
3:30 in the afternoon	15:30 hours
6 o' clock in the evening	_____
9 o' clock in the evening	_____
12 o' clock at midnight	_____

50

Now can you tell why a 24-hour clock is called so?

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

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	
Time of Sunset	

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

1. _____

2. _____

3. _____

51