



Measurement of Time

■ Reading the clock

Tai : You had asked me how to tell the time using a clock. Today, I have brought a big clock to help you to learn that. Look at the long hand and the short hand of the clock. When both are at 12, it is twelve o'clock.



Salma : When the short hand is at 4 and the long one at 12, it is 4 o'clock.



Nandu : We can also show 5 o'clock and 9 o'clock like this.

Sonu : The short hand goes slowly, but the long one moves faster!

Tai : Yes. The short hand shows hours and the long one shows minutes. That is why they are also called the hour hand and the minute hand. The long hand has reached 1. So it is 5 minutes past 12 o'clock.



Nandu : When the minute hand reaches 2, it will be 10 minutes past 12, and, when it reaches 3, it will be 15 minutes past 12. Then we will see that the hour hand has also moved forward a little.



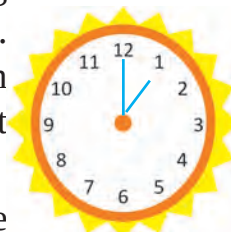
Tai : That's right. Between two adjacent numbers, there is a difference of five minutes.



Sonu : That means, we can use the 5 times table for counting minutes. So when the hour hand is between 12 and 1 and the minute hand is on 9 we can tell that it is 45 minutes past 12. Because 9 fives are 45.



Tai : Great! When the minute hand moves forward starting from 12 and reaches 12 again, it has completed one round. The time it takes to do this is 60 minutes or 1 hour. In that time, the hour hand moves from 12 to 1. And at that moment, the time is 1 o'clock.



Tony : I got it. If the hour hand is between 4 and 5 and the minute hand is on 8, then, because 8 fives are 40, it is 40 minutes past 4.



Hour and minute are the units for measuring time.

- ◆ Write in hours and minutes the time that each clock is showing.









- ◆ Read the given time and draw the hands of the clock below to show that time.

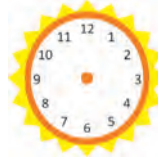
10 minutes past 5



5 minutes past 9



20 minutes past 6



35 minutes past 11



- ◆ Write in the table below, approximately how many minutes or hours or days it takes for each of the following to happen.

Rice gets cooked in the pressure cooker	A cow is milked	Mother cooks a meal	The water tank gets filled	A sweater is knitted	A rose bud blooms into a flower

- ◆ In the table below, fill in the main things you do in a day, the times at which you do them and the positions of the hands of the clock at each of those times.

S.No.	What I do	Time in the clock	Positions of the hands of the clock
1.	Get up in the morning.	15 min past 6	Short hand just after 6, long hand at 3.

- ◆ Find out what you can about the following kinds of clocks/watches.

- ❖ The clock in the mobile phone
- ❖ The clockwork clock
- ❖ The pendulum clock
- ❖ The automatic clock or watch
- ❖ The stop-watch
- ❖ The hourglass
- ❖ The sundial

For teachers : Tell the children to make clocks using thick cardboard and some pins. Give them practice in telling the time using these clocks.