

Gayathri's school is celebrating Children's day. All the parents got an invitation card, along with the programme.

Do This

Look at the card and answer :

- The group song will start at _____ and end at _____.
- The group dance is _____ minutes long.
- _____ is the longest item in the programme.
- The whole programme is _____ hours and _____ minutes long.

We Welcome You Programme

<i>Programme</i>	<i>Time</i>
<i>Welcome</i>	<i>9:00</i>
<i>Group song</i>	<i>9:10</i>
<i>Drama</i>	<i>9:15</i>
<i>Violin Recital</i>	<i>9:45</i>
<i>Solo song</i>	<i>9:55</i>
<i>Quiz</i>	<i>10:00</i>
<i>Group Dance</i>	<i>10:30</i>
<i>JAM</i>	<i>10:40</i>
<i>Prize Distribution</i>	<i>10:50</i>
<i>National Anthem</i>	<i>11:10</i>
<i>Chief Guest Departure</i>	<i>11:15</i>

9 o'clock in the morning or 9 o'clock in the night?

Gayathri took the invitation card home.

Gayathri : Grand Mother, you must come to my school. The programme will start at 9:00.

Grand Mother : At 9:00 in the morning or 9:00 at night?

Gayathri : Don't joke, Grand Mother! Of course in the morning.

But later Gayathri asked her mother 9 o'clock comes twice in the day. How can we show that it is morning or evening?



Mother : We use 'am' and 'pm'.

Gayathri : But how do I know when to put 'am' or 'pm'.

Mother : If the time is before 12 noon, we use am and if it is afterwards then pm.

Gayathri was confused so mother gave her some exercises.

Do This

1. Help Gayathri fill in the blanks with am or pm.

(a) The day/night cricket match will start at 1:30 ____.

(b) I do homework in the evening at 7:00 ____.

(c) I get up in the morning at 6:30 ____.

(d) The sun will set at 6:30 ____.

(e) Mother leaves for office at 8:30 ____.

(f) My school starts at 9:00 ____.

(g) We can see the stars at 11:00 ____.

(h) Mid-day meal is at 12:30 ____.

Preparing for the function

Next day Gayathri and other children started preparing items for the function. First they looked at how much time each item would take.



Fill the time-table by looking at the invitation card

S.No.	Item	Time slot	Duration
1.	Welcome	9:00-9:10	10 Minutes
2.	Group song	9:10-9:15	5 Minutes
3.	-----	-----	-----
4.	-----	-----	-----
5.	Solo Song	9:55- ----	5 Minutes
6.	-----	-----	-----
7.	-----	-----	-----
8.	JAM	10:40-10:50	10 Minutes
9.	-----	-----	-----
10.	National Anthem	11:10-11:15	5 Minutes
		Total time =	----- Minutes



All items together will take 135 minutes.

No, the programme is 2 hours 15 minutes long.



135 minutes and 2 hours 15 minutes are same. See how.

1 hour = 60 minutes.

2 hours = 2×60 minutes

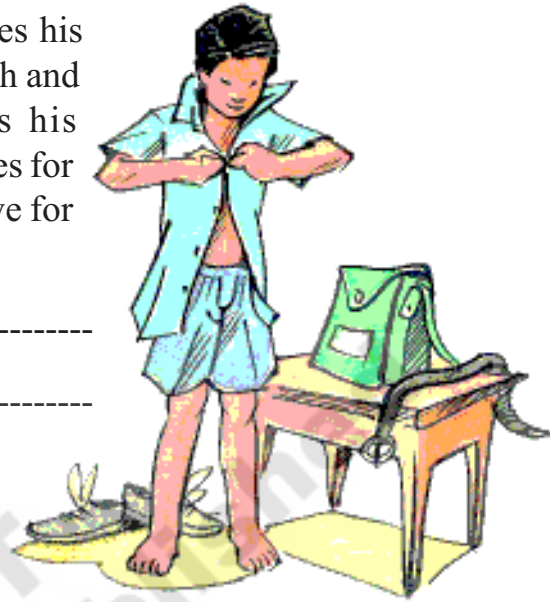
= 120 minutes

2 hours 15 minutes = $120+15$ minutes

= 135 minutes.

Do This

1. Suresh gets up at 6:00 am. He brushes his teeth for 5 minutes. Then he takes bath and get ready in 20 minutes. He eats his breakfast in 15 minutes. Then he leaves for school. At what time does Suresh leave for school?



2. It takes Suresh 1 hour and 5 minutes to reach school. How many minutes does Suresh take to reach school?

3. Ammamma sleeps for 90 minutes in the afternoon. Ammamma sleeps for ____ hour ____ minutes.
4. Suresh studies from 7:00 pm to 8:15 pm. He studies for _____ minutes.




Day of the function

Gayathri took part in JAM. JAM is 'just a minute.'

The participant has to speak non-stop for a minute and follow the rules no repetition, no stopping etc. The one who speaks longest wins. Two teams competed in JAM. Look at their times.

Team A		Team B	
Participant	Time (seconds)	Participants	Time (seconds)
Shafi	27	Gayathri	22
Roja	40	Fathima	46
Suresh	32	Mary	33
Total seconds	Total seconds

- (a) Team A spoke for _____ minutes
_____ seconds.
- (b) Team B spoke for _____ minutes
_____ seconds.
- (c) There are _____ seconds in 2 minutes.
- (d) There are _____ seconds in 5 minutes.
- (e) 190 seconds is equal to _____ minutes and _____ seconds.
- 1 hour has
60 minutes and
1 minute has
60 seconds
- 

How many hours in a day?

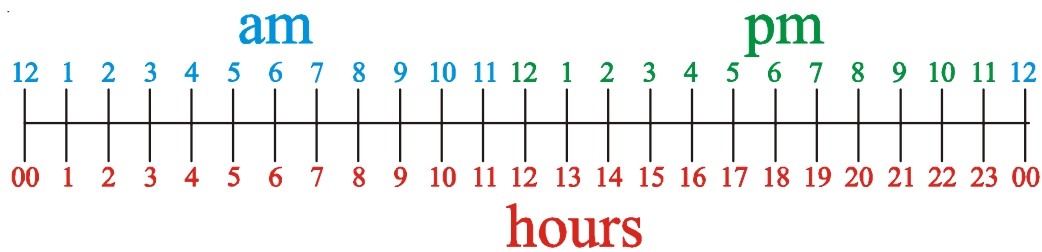
We know that one hour has 60 minutes and 1 minute has 60 seconds. But how many hours are there in a day? Look at Gayathri's daily routine.

If Gayathri gets up at 6 am and goes to bed at 9 pm, how many hours does she spend awake _____.

She goes to bed at 9:00 pm and gets up at 6:00 am. She sleeps for _____ hours.

If we add the two, we get 24 hours. So, number of hours in a day is 24.

So far we have read time in terms of 12 hours clock. We can also tell time based on the fact a day has 24 hours. Let us see how-



You already know that we read the time after 12 noon in terms of pm and before it in term of am. In 24 hour clock it is read differently.

An hour after 12 noon is read as 1 pm in the 12 hour clock and it is read as 13 hours in the 24 hour clock.

Similarly, 3 pm in the 12 hour clock is 15:00 hours in the 24 hour clock. What will 5 pm in 12 hour clock be read as in the 24 hour clock?

Waht about 11 pm?

Do This

Fill in the blanks

Time (12 hours clock)

Time (24 hours clock)

6:00 am

_____ hours

1:30 pm

_____ hours

16:30 hours

8:00 pm

_____ hours

5:30 hours

Try This

Write down how long you think it takes to do the following activities:

S.No.	Activity	In Hours	In Minutes	In Seconds
1.	Eat breakfast	$\frac{1}{3}$ hour	20 minutes	1200 s
2.	Take a bath			
3.	Watch a movie			
4.	Complete Homework			
5.	Read one page in a book			
6.	Count from 1 to 50			


How much time does it take?

Different activities take different amounts of time. Going from your house to your neighbour's house takes 5 minutes, but going from Vizianagaram to Mumbai by train takes more than 24 hours.

Think and Discuss

1. How long does it take for your hair to grow 5 cm?
2. How long does it take for a mango tree to grow from seed to give fruits.

Look at Akhila's birth certificate.

Book No. 2037  Sl. No. 42

MUNICIPAL CORPORATION OF HYDERABAD
Form 9
(See Rule 10 & 15)

Government of AP
Department of MCH


CERTIFICATE OF BIRTH
(Issued under Section 12/17 of the Registration of Births and Deaths Act 1969)

This is to certify that the following information has been taken from the original record of birth which is in the register for 1997 of Tehsil Ward No: 16A
(Local Area)

of District Hyderabad of State AP
Name K. AKHILA Sex Female
Date of Birth 16-8-1997 Registration No. 2581
Place of Birth Chour Holey Malampet Date of Registration 21-8-97
Permanent residential address of parents ?

Name of Father K. Rajender Reddy
Name of Mother K. Madhavi

Remarks

 Date 21/11/97
Seal

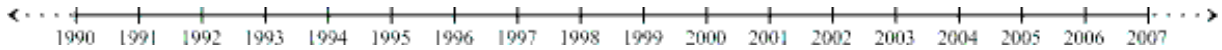
Chour
Signature of Issuing Authority
Sub-Registrar,
Births & Deaths,
Ward No. 16 Circle No. 1, M.C.H.

Akhila's date as per birth on her birth certificate is 16/08/1997. What does this mean?

16 is the day of the month. 8 is the month of the year, which is August. 1997 is the year. This means that Akhila was born on Sixteenth August Ninetyseven.

Do This

1. Akhila would have been how many months old in 27/11/1997?
2. The number line given below shows the year in which Akhila was born and some years before and after it.



- (a) How many years old will she be in 2004?
 - (b) In which year will she be 9 years old?
 - (c) If Akhila's brother is 6 years older than her, then in which year was he born?
3. Now, collect information about your birth and fill it in the space given below-

BIRTH CERTIFICATE

Name : _____

Sex : _____

Date of Birth : _____

Registration No. : _____

Place of Birth : _____

Date of Registration : _____

Name of Father : _____

Name of Mother : _____

Date of Issue : _____

Exercise

1. Read the following dates and write in words
 - (a) 26/1/2000 _____
 - (b) 24/9/2010 _____
 - (c) 5/2/1999 _____
2. Write the following dates using numbers.
 - (a) 19 May 1978 _____
 - (b) 14 November 2005 _____
 - (c) 25 December 2014 _____
3. Are these dates possible? Why not?
 - (a) 33/3/2010
 - (b) 30/13/2010
4. Padmapriya will purchase some packed food on 22 February 2013. The food packet said should be consumed within 180 days of manufacture. The date of manufacture on the food packet was 31/8/2012. Should Padmapriya purchase the food?

5. Farhana purchased some medicines on 20/6/2012. The medicine packet said should be consumed within 3 years of manufacture. The date of manufacture on the medicine pack was 31/12/2009. Whether the medicines purchased were valid or not?

6. In the following table timings of trains leaving for various places from Hyderabad is given in 24 hour clock. Try to write them in the 12 hour clock.

Time table

Train	24 hour clock	12 hour clock
Hyderabad to Adilabad	21.00	
Hyderabad to Vijayawarad	17.30	
Hyderabad to Tirupathi	19.15	
Hyderabad to Warangal	16.45	
Hyderabad to Delhi	6.15	
Hyderabad to Chennai	11.45	

Think and Discuss

If 9th September 2012 is a Sunday, what will be the day on 9th October 2012 and 9th December 2012?