

## Class-5

### **Subject-Mathematics**

## Chapter-12 (Time)

## Lecture- 01

**Calendar:** A chart or series of pages showing the days, weeks, and months of a particular year, or giving particular seasonal information.

	Month	Number of Days
1	Baishakh	31
2	Jaisthya	31
3	Ashar	31
4	Shrabon	31
5	Bhadra	31
6	Ashwin	30
7	Karyik	30
8	Agrahyon	30
9	Paush	30
10	Mugh	30
11	Falgun	30
12	Chaitra	30

## **Bangla Calendar**

\*\*The first five months of Bangla year will have 31 days, and the last of the year will have 30 days.

## **English Calendar**

	Month	Number of Days
1	January	31
2	February	28
3	March	31
4	April	30
5	Мау	31
6	June	30
7	July	31
8	August	31
9	September	30
10	October	31
11	November	30
12	December	31

# **Example 1:** Tamim's birthday is 28<sup>th</sup> May. Taslima's birthday is 8 days after Tamim's birthday, when is her birthday?

### Solution:

Here, 28 + 8 = 36

We know, May has 31 days.

 $\therefore$  Taslima's birthday = 36 - 31 = 5 June

Ans: 5 June.

# **Example 2:** What is the day of week that is 35 days after March 3, Thursday?

Solution: Thursday.



# **Example 3:** What is the day of week that is 50 days before April 1, Friday?

Solution: Thursday.



### Example 4: What is the date that is 20 days after Baishakh 25?

Solution: 14 Jaistha

We know, Baishakh has 31 days. Remaining days of Baishakh = 31 - 25 = 6 days Now the date is = 20 - 6 = 14Month after Baishakh is Jaistha. So the date will be 14 Jaistha

Example 5: When May 3 is Tuesday, what day of week is May 31?

Solution: Tuesday.



#### Leap Year –

A leap year is a year containing 366 days.

In leap year, February has 29 days that is 1 day more than 28 days in other years, and so the number of days in a year becomes 366.

#### Finding leap year -

A year is a leap year if it is divisible by 4.

The years that the tens and ones places are both 0 are not leap years unless they are divisible by 400.

## Example 6: How many days were there in February of the following years?

Solution:

1)	503
	4) 2012
	20
	1
	0
	12
	12
	0

Since there is no remainder.

 $\therefore$  2012 is a leap year.



Since there is no remainder.

 $\therefore$  2000 is a leap year.

**Decade:** A period of 10 consecutive years is a decade.

Era: A period of 12 consecutive years is an era.

**Century:** A period of 100 consecutive years is a century.

Year ———	→ Century
1 – 100	1 <sup>st</sup> Century
101 – 200	2 <sup>nd</sup> Century
201 – 300	3 <sup>rd</sup> Century
301 – 400	4 <sup>th</sup> Century
401 – 500	5 <sup>th</sup> Century
501 - 600	6 <sup>th</sup> Century
601 – 700	7 <sup>th</sup> Century
701 – 800	8 <sup>th</sup> Century
801 – 900	9 <sup>th</sup> Century
901 – 1000	10 <sup>th</sup> Century
1001 – 1100	11 <sup>th</sup> Century
1101 – 1200	12 <sup>th</sup> Century
1201 – 1300	13 <sup>th</sup> Century
1301 – 1400	14 <sup>th</sup> Century
1401 – 1500	15 <sup>th</sup> Century
1501 – 1600	16 <sup>th</sup> Century

1601 – 1700	17 <sup>th</sup> Century
1701 – 1800	18 <sup>th</sup> Century
1801 – 1900	19 <sup>th</sup> Century
1901 – 2000	20 <sup>th</sup> Century
2001 - 2100	21 <sup>st</sup> Century

\*\* The 1<sup>st</sup> century started in the year 1, which was more than 2000 years ago. We are now in 21<sup>st</sup> century, which was started in the year 2001.

#### **Example 7:** What number century was 1945?

**Solution:** The years of 1945 was in the 20<sup>th</sup> century.

#### Exercise

1. What is the day of week that is 21 days after February 13, Saturday?

2. January 1 of the year 2018 was Monday. What day of week was 40 days after January 1?

- 3. What is the date that is 49 days after June 25?
- 4. When October 1 is Saturday, what day of week is October 31?
- 5. How many days were there in February of the following years?

a) 1800, b) 1900, c) 2000, d) 1918, e) 1984, f) 1820

6. What number century was each of the following years?

a) 1945, b) 1300, c) 1899, d) 108, e) 1015, f) 2001