

## Class-5

## **Subject-Mathematics**

Chapter-12 (Time)

**Lecture- 01 (Solution)** 

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

Ans: Saturday.

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

Ans: Saturday.

Since remainder 5 so five days after Monday is Saturday.

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3. What is the date that is 49 days after June 25?

Ans: 13 August.

After 25 June, remaining days of June = 
$$30 - 25 = 5$$
  
Remaining days =  $49 - 5 = 44$   
July has 31 days  
Required date =  $44 - 31 = 13$  August

4. When October 1 is Saturday, what day of week is October 31?

Ans: Monday.

After 1<sup>st</sup> October, remaining days = 
$$31 - 1 = 30$$

Since remainder 2 so two days after Saturday is Monday.

- 5. How many days were there in February of the following years?
  - a) 1800, b) 1900, c) 1918, d) 1984, e) 1820

Since there is a remainder 200.

∴ 1800 is not a leap year.

Since there is a remainder 300.

∴ 1900 is not a leap year.

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Since there is a remainder 2.

∴ 1918 is not a leap year.

Since there is no remainder.

∴ 1984 is a leap year.

Since there is no remainder.

- ∴ 1820 is a leap year.
- 6. What number century was each of the following years?
  - a) 1945, b) 1300, c) 1899, d) 108, e) 1015, f) 2001
- Ans: a) The year of 1945 was in the century 20th century.
  - b) The year of 1300 was in the century 13th century.
  - c) The year of 1899 was in the century 19th century.
  - d) The year of 108 was in the century 2<sup>nd</sup> century.
  - e) The year of 1015 was in the century 11th century.
  - f) The year of 2001 was in the century 21st century.