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Exercise : Calendar - Formulas

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1. **Odd Days:**

   We are supposed to find the day of the week on a given date.

   For this, we use the concept of 'odd days'.

   In a given period, the number of days more than the complete weeks are called **odd days**.

2. **Leap Year:**

   (i). Every year divisible by 4 is a leap year, if it is not a century.

   (ii). Every 4th century is a leap year and no other century is a leap year.

   Note: **A leap year has 366 days.**

   Examples:

   1. Each of the years 1948, 2004, 1676 etc. is a leap year.

   2. Each of the years 400, 800, 1200, 1600, 2000 etc. is a leap year.

   3. None of the years 2001, 2002, 2003, 2005, 1800, 2100 is a leap year.

3. **Ordinary Year:**

   The year which is not a leap year is called an **ordinary years**. An ordinary year has 365 days.

4. **Counting of Odd Days:**

   1. 1 ordinary year = 365 days = (52 weeks + 1 day.)

∴ 1 ordinary year has 1 odd day.

2. 1 leap year = 366 days = (52 weeks + 2 days)

∴ 1 leap year has 2 odd days.

3. 100 years = 76 ordinary years + 24 leap years

= (76 × 1 + 24 × 2) odd days = 124 odd days.

= (17 weeks + days) ≡ 5 odd days.

∴ Number of odd days in 100 years = 5.

Number of odd days in 200 years = (5 × 2) ≡ 3 odd days.

Number of odd days in 300 years = (5 × 3) ≡ 1 odd day.

Number of odd days in 400 years = (5 × 4 + 1) ≡ 0 odd day.

Similarly, each one of 800 years, 1200 years, 1600 years, 2000 years etc. has 0 odd days.

5. Day of the Week Related to Odd Days:

No. of days:	0	1	2	3	4	5	6
Day:	Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.

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