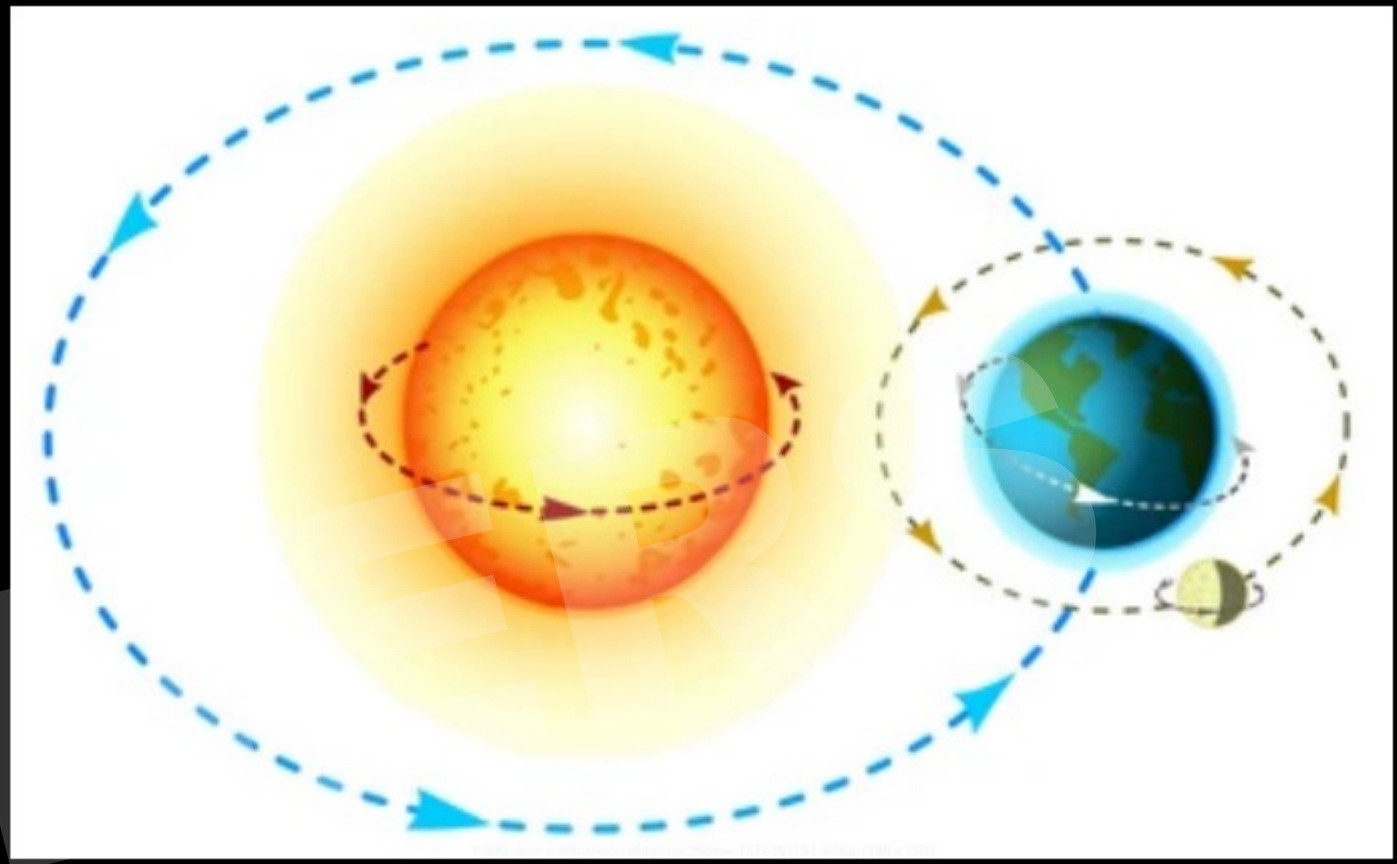
Calendar

केलेंडर

did you know?

We need leap years because it takes Earth 365 days, 5 hours, 48 minutes and 46 seconds to orbit the sun, causing the calendar year to become more and more out of sync with the solar year over time. If we didn't have leap days, February 2016 would actually be July 2017.



365 days, 5h, 48 min, 46 sec.

जूलियन → 1600

Present ग्रेगोरियन केलेंडर

वर्ष (years)

365 days → साधारण वर्ष / Normal year

366 days → अधिवर्ष / Leap year

1957, 1989	वर्ष ÷ 4 ⇒ L.Y.
1900, 1857	शताब्दी वर्ष (C.Y.) ÷ 400 = L.Y.
1999, 2009	2004, 1996, 2024, 1896, 1600, 2000

C.Y. { 1600, 1700, 1800, 1900, 2000, 2100, 2200 }

1600

365 days, 5hrs, 48 min, 45·25 Sec

लगभग = 6 h.

1601 ⇒ 365 days, 6h.

1602 = 365 days, 6h.

1603 = 365 days, 6h.

1604 = 365 days, 6h.

+ 1 day

366 days

24 h. ≈ 1 day

Leap year ⇒ ×4

÷4

365 days, 6 h., 00 min, 00 min

365 days, 5h., 48 min, 46 sec.

---

11 min, 14 sec. × 100 y = +18 h. (-24)

6h. ~

100 y = +18 h. (-24)

100 y = +18 h. (-24)

100 y = +18 h. (-24)

1600 ≈

1700 ×

1800 ×

1900 ×

2000 ≈

2100 ×

2200 ×

2300 ×

1696 L.Y. ≈

1700 L.Y. × −24, +18

365

2400 ≈

400 y = +1 days

6h × 4 = −24

रोमन

1 March ⟶ 28 feb + 1 day

29 feb

★ 100 years = ? L.Y.

$\frac{100}{4} = 25$

24 y L.Y.

76 N.Y.

1604, 1608, 1612, ----, 1696, 1700 ✗

25 y

24 y

1904, 1908, ---------, 2000

25 y

400 yrs = L.y. = ?

1601 → 1700	1701 → 1800	1801 → 1900	1901 – 2000
24	24	24	25

400 → L.y. ⇒ 97 y
400 → N.y. ⇒ 303 y

1y. = 365 days

$$7 \overline{)365} \; 52$$

35

15

− 14

1

[1 = Mon.
7 = Sun
8 = Mon.

★

N.Y. / Same

1 - Jan - 2023 = Sunday

31 - Dec - 2023 = Sunday

N.Y.

1 - Jan - 2023 = Sunday

1 - Jan - 2024 = Monday (+1)

- Same date ⇒ +1
- Same date ⇒ +2
  29th feb.

+1 +1 +1 = 2

1 - Jan - 2024 = Monday

31 - Dec - 2024 = Tuesday

15 - feb - 2024 = Wed.

15 - feb - 2025 = friday (+2)

30 - Mar - 2024 = Sat.

30 - Mar - 2025 = Sunday

Date → Day

Concept - 1

तारिख का वार ज्ञात करना।

Formula:- $\frac{\text{दिन} + \text{वर्ष} + \text{लीप वर्ष} + \text{शताब्दी} + \text{माह कोड}}{7}$

माह कोड	Month	
January	1	0
February	4	3
March	4	4
April	0	0
May	2	2
June	5	5
July	0	0
August	3	3
September	6	6
October	1	1
November	4	4
December	6	6

Day Code	दिन
Sunday	1
Monday	2
Tuesday	3
Wednesday	4
Thursday	5
Friday	6
Saturday	0

शताब्दी कोड	
1600	6
1700	4
1800	2
1900	0
2000	6
2100	4
2200	2

1600 → 6420

$$\frac{47}{4} = 11$$

$$\frac{\text{Day} + \text{month} + \text{year} + \text{L.y.} + \text{C.y.}}{7}$$

1900 — 47

15-Aug-1947

Day = ?

$$\frac{15 + 3 + 47 + 11 + 0}{7}$$

$$1 + 3 + 5 + 4$$

$$\frac{13}{7} = \underset{\uparrow}{6} \xrightarrow{\text{शेष.(R)}} \text{Friday}$$

2000 23

11-feb-2023

Day = ?

$\frac{23}{4}$

Day + month + year + LY + CY

$$\frac{11+4+23+5+6}{7}$$

$4+4+2+5+6 = \frac{21}{7} = 0 \rightarrow$ Saturday