odd days

Leap year $\Rightarrow$ Feb. 29 $\Rightarrow$ 1

Normal year $\Rightarrow$

Jan. + Feb. + mar. + Apr. + may + June + July +

31   28   31   30   31   30   31
 3   0   3   2   3   2   3

Aug. + Sept + oct. + Nov. + Dec.

31   30   31   30   31
 3   2   3   2   3

You can get everything in life you want if you will just help enough other people get what they want.

आप जीवन में वह सब कुछ प्राप्त कर सकते हैं जो आप चाहते हैं यदि आप अन्य लोगों की पर्याप्त मदद करें जो वे चाहते हैं।
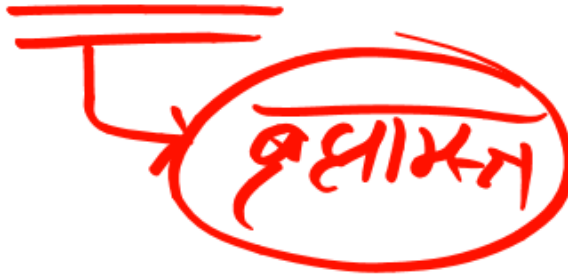
Calendar (Day 1)

Ordinary Year   =   365 days

Leap Year = 366 days = The year which is fully divided by 4 is called leap year.

February is 29 days in Leap Year.

Leap Century   =   this century which is fully divided by 400 is called leap century

Odd Days   = The remainder obtained by dividing the number of the days by 7.

(क्षतांश)

$$\frac{25}{7} \Rightarrow 4 \text{ odd days}$$

$$\text{दिनांक} \Rightarrow वर + दिनांक$$

$\Rightarrow$ Gregarian Calendar

12 महीने

$\Rightarrow 365$ → 365 days

354 → 1 दिन

11

वि.सं. $\Rightarrow$ eng $+ 56$

57 ई

हर 3 साल के

1 साल (13)

Calendar (Day 1)

साधारण वर्ष = 365 दिन

लीप वर्ष = 366 दिन = जिस वर्ष को 4 से पूर्णतः विभाजित किया जाता है उसे लीप वर्ष कहते हैं।

लीप ईयर में फरवरी 29 दिन का होता है।

लीप सेंचुरी = 400 से पूरी तरह विभाजित होने वाली इस सेंचुरी को लीप सेंचुरी कहा जाता है

विषम दिन = दिनों की संख्या को 7 से भाग देने पर प्राप्त शेषफल।

Type 1

Q. How many leap years were there in the first century ?

प्र. प्रथम शताब्दी में कितने लीप वर्ष थे?

$$\frac{100}{4} \Rightarrow 25 - 1 (100)$$

$$\Rightarrow 24 \text{ leap year}$$

Calendar (Day 1)

Q. How many leap years were there in the 400 years ?

प्र. 400 वर्षों में कितने लीप वर्ष थे?

$$400$$

$$100 + 200 + 300 + 400$$
$$\downarrow \quad \downarrow \quad \downarrow \quad \downarrow$$
$$24 + 24 + 24 + 25 \Rightarrow \underline{\underline{97}}$$

Calendar (Day 1)

Q. If there was a Tuesday on march 5 of a year , then what day will it be on march 30 of the same year ?

प्र. यदि किसी वर्ष 5 मार्च को मंगलवार था, तो उसी वर्ष 30 मार्च को कौन सा दिन होगा?

$$5 \text{ march} \Rightarrow \text{Tuesday} +4$$
$$30 \text{ march} \Rightarrow \quad ? \text{ Saturday}$$

$\rightarrow$ Diff. $\Rightarrow \dfrac{25}{7} \Rightarrow 4$ odd days

Calendar (Day 1)
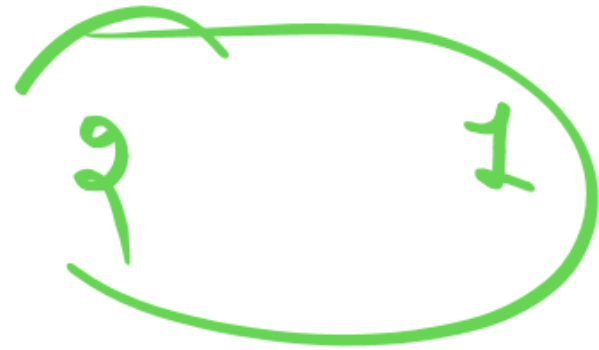
Q. 7 April = Thursday $+3$

22 May = ?

Sunday

Apr. + May

$\cancel{23} + \cancel{22} \Rightarrow \dfrac{45}{7} \Rightarrow ③$

2   1

Calendar (Day 1)

15 May = Sunday $+$ 4

11 August = ?

Thursday

$$\frac{2}{16} + 2 + \frac{3}{7} + \frac{4}{11}$$

$$\Rightarrow 4$$

Calendar (Day 1)

12 October = Friday — 4

16 April = ? **monday**

Apr. + May + June + July + Aug + Sept + Oct

$$\frac{11}{0} + 3 + 2 + 3 + 3 + \frac{2}{0} + \frac{12}{8}$$

$$\frac{11}{7} \Rightarrow 4 \text{ odd days}$$

Calendar (Day 1)

Note = 1. Odd days will be added when moving forward in the calendar. " + "

      2. Odd days will be subtracted when moving backward in the calendar. " _ "

नोट = 1. चलने पर विषम दिन जोड़े जायेंगे कैलेंडर में आगे। "+"

      2. कैलेंडर में पीछे जाने पर विषम दिन घटा दिए जाएंगे। "_"

Type-2

Type = 2

(Date Same year change)

Ordinary year = $\underline{365/7}$ = 1 Odd days

Leap Year = 366/7 = 2 Odd days

N.y. $\Rightarrow$ 365 $\Rightarrow$ 52 week 1 odd day

L.y. $\Rightarrow$ 366 $\Rightarrow$ 52 week 2 odd day

Calendar (Day 1)

Q. If it was Friday on 15 August 2003, then what day would it be on 15 August 2023?

प्र. यदि 15 अगस्त 2003 को शुक्रवार था, तो 15 अगस्त 2023 को कौन सा दिन होगा?

method of four

15 Aug 2003 $\Rightarrow$ Friday +4

15 Aug. 2023 $\Rightarrow$? **Tuesday**

Diff.

$20 + 5 \Rightarrow \dfrac{25}{7}$

(Leap year) $\Rightarrow$ ④ odd

Diff. $\Rightarrow$ 20 yrs
$\rightarrow$ L.y. $\Rightarrow 5 \times 2 \Rightarrow 10$
$\rightarrow$ N.y $\Rightarrow 15 \times 1 \Rightarrow 15$
$\Big] + \dfrac{25}{7} \Rightarrow$ ④

Calendar (Day 1)

Q. If it was Friday on 6 march 2009 , then what day would it be on 6 march 2020 ?

प्र. यदि 6 मार्च 2009 को शुक्रवार था, तो 6 मार्च 2020 को कौन सा दिन होगा?

6 mar. 2009 $\Rightarrow$ Friday +0

6 mar. 2020 $\Rightarrow$? Friday

Diff $\Rightarrow$ 11 + 3 $\Rightarrow$ $\dfrac{14}{7}$ $\Rightarrow$ 0

Calendar (Day 1)

Concept

Calendar (Day 1)

Q. If it was Monday on 11 November 1991 , then what day would it be on 11 November 2022 ?

प्र. यदि 11 नवंबर को सोमवार था. 1991, तो 11 नवंबर 2022को कौन सा दिन होगा?

11 Nov. 1991 ⇒ Monday +4

11 Nov. 2022 ⇒ ? Friday

Diff. ⇒ $\frac{31}{3} + \frac{8}{1}$ ⇒ $\frac{39}{7}$ ⇒ 4 odd day

Calendar (Day 1)

15 August 2019 = Sunday -3

15 August 2005 = ?

Thursday

$2005 - 2019$

$14 + 3 \Rightarrow \dfrac{17}{7} \Rightarrow 3$ odd days

Calendar (Day 1)

Calendar (Day 1)

16 January 2024 = Monday -4

16 January 2004 = ?

Thursday

Diff. $\Rightarrow$ 20 yrs + 5

$\Rightarrow \dfrac{25}{7} \Rightarrow 4$

Calendar (Day 1)

20 April 2012   =   Wednesday $+2$

20 April 2025   =   ? Friday $\longleftarrow$ $16, 20, 24$

$2012 - 25$

$\longrightarrow 13 + 3 \Rightarrow \dfrac{16}{7} \Rightarrow 2$

Thank you.

Calendar (Day 1)

Calendar (Day 1)