Calender

Sunday - 0

Mon - 1

Tue - 2

Wed - 3

Thur - 4

Fri - 5

Sat - 6

Ordinary year = 365 days
↓
52 - weeks + 1 Extraday.

Leap year ∴ 366 days

52 weeks + 2 Extradays.

Years	- century odd days
1701 - 1800	5
1801 - 1900	3
1901 - 2000	1
2001 - 2100	0
2101 - 2200	5
2201 - 2300	3
2801 - 2400	1
2401 - 2500	0

25 4

Leap year or not

2022 → normal
2024 → leap [÷4]
2028
1926

Divisibility rule

Last two digit

15 / 05 / 2019 ——→ Find Day

century - 0

year - 22?
Month - 8
Day - 15
⎱ ⊕
45 → ③ → Reminder ⟹ Wednesday

2018 → 18 → 4 leaps + 14 Normal year

$8^{(4×2)}$ + 14 = 22

April → [Jan - 31 - 3
        Feb - 28 - 0
        mar - 31 - 3
        Apr - 30 - 2
              8

③

12/03/2006 → which Day

Cen – 0
Ye – 2006
Mon – 3
Date – 12
———
21 – 0
[21/7 – 0]

Ans:- Sunday.

year 2005 → 1 + 4
↓   ↓
2 + 4
↓
6

Mon → Jan → 3
Feb → 0
——
3

---

③ 13/04/1993

C – 1
y – 115
M – 6
D – 13
———
135

7 | 135
    07
    ——
    65
    63
    ——
    02 → Tuesday.

| 90's → 1 |
| 20k's → 0 |

→ 1992 → 23 + 69
         46
         ——
      → 46 + 69 (N)

⇒ 115

23 March
Jan – 3
Feb – 0
mar – 3
——
6

4) 04/ 04/ 2124 → which day

C - 5
Dy - 28
M - 7
D → 04
___
44

$\frac{44}{7}$ = 02 → Rem

Tuesday.

$\frac{2123}{\downarrow}$

23 → 5 + 18
⇒ 10 + 18
⇒ 28

Month
Jan → 31 → 3
Feb → 28 → 1
March 31 → 3
___
7

II model

It Jan 10 2009 was Saturday
if Jan 10 2010 was ___?___

Sol: first search leap year, or not
If not means Next is answers

ANS :- Sunday.

if 18th feb 1997 → ~~Thursday~~ Tues

if 18th feb 1999 → ?

Sol:

→ 1997 → ~~Thursday~~ Tues

1998 → ~~Friday~~ wed

1999 → Thursday

2) If may 15 2019 → web

If may 15 2020 → ? (Thur) ✗

· Friday

Check:- leap year or not

if leap year means add
⊗ one

Ans:- Friday.

Model:- 3.

The calender of the year 2000
will be same for?

Ans: = 2028 //

short cut

given year/4 → 0 → +28

year/4 → 1 → +6

year/4 → 2 → +11

year/4 → 3 → +11

Ex:- 2004 → 2004
              28
           ‾‾‾‾‾
           2032
           ‾‾‾‾‾

Ex 1976 → leap year → +28
        +28
      ‾‾‾‾‾
       2004
      ‾‾‾‾‾

Ex: 2019 ⟹ 2019 =
                  ‾‾‾‾
                   4

Ex:-
4 | 2019 503
   ‾‾‾‾‾‾
    4   Rem → 2 ⟹ +11 → 2014
                                  11
                               ‾‾‾‾‾
                                2025
                               ‾‾‾‾‾

Ex:-
   505
  2020 ⟹ 2020
   4   28 ⟹
          ‾‾‾‾‾
           2045
          ‾‾‾‾‾

Ex:-
1) Sat was holiday for Republic day, 14th of the next month is again a holiday for Election Poll what is the day is it on 14th?

Rep :- 26/01 → Sat

14/02 → ?

+ 5
14
———
19 / 7 → ⑤ Rem   ANs :- Thursday.

2) 'x' was born on march '6' 1993 the same year, independance day celebrate on friday on which day w 'x' was born?

march/06/1993 → ? Thursday

↓

15/08 → friday

SOL :-

march → 2 0 6 ③ 31
25 → mar
30 → Ap
31 → may
30 → June
31 → july
15 → Aug
———
162
÷ ——— → ① → ANs :- Thursday.
7   ↓ Rem

Ex:- Suman went to the movie 9 day ago.
She goes to the movie only on Thursday?
What day of the week is today ? (Sat)

9 days → Thursday.
↓
7 day → Thurs
8 → Frid
9 → Sat

Ex:- 1 Dec 1991 is first Sunday, which is
the fourth tuesday of Dec of 1991?

Sol:-

14 TH ← 1 Dec → sunday
2 ← 8 → Sun
3 15 → Sun
2
4 ← 22 → Sun.   23→mon
29 → Sun   24→Tues

Ans.

┌─────────────────────────────┐
│ 24th Dec →199→ Tues │
└─────────────────────────────┘

Ex:
Today is monday after 50 days ?

7
7)50
49
1 → Rem ↗ next day→ Tuesday
                    ↓ Ans