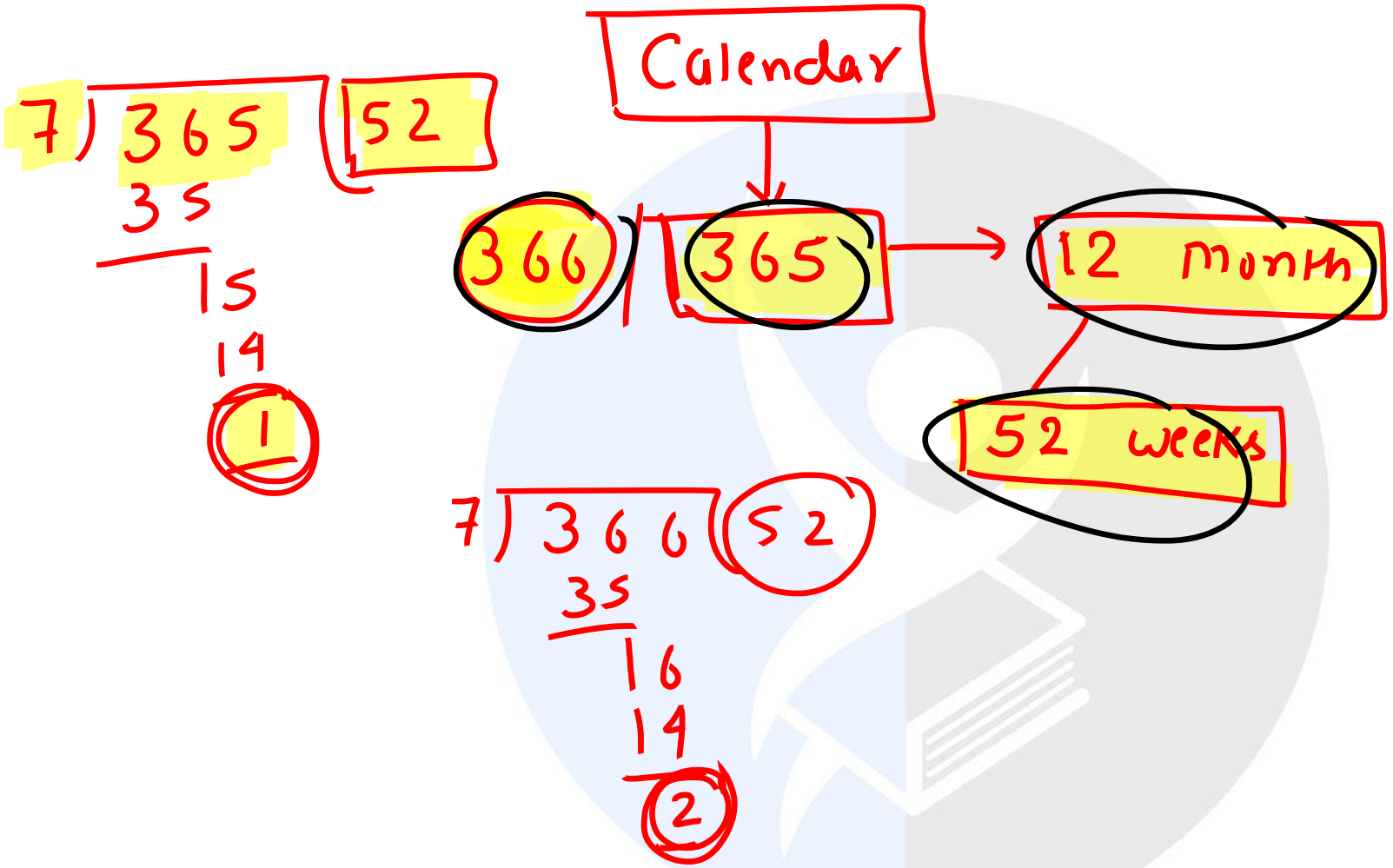
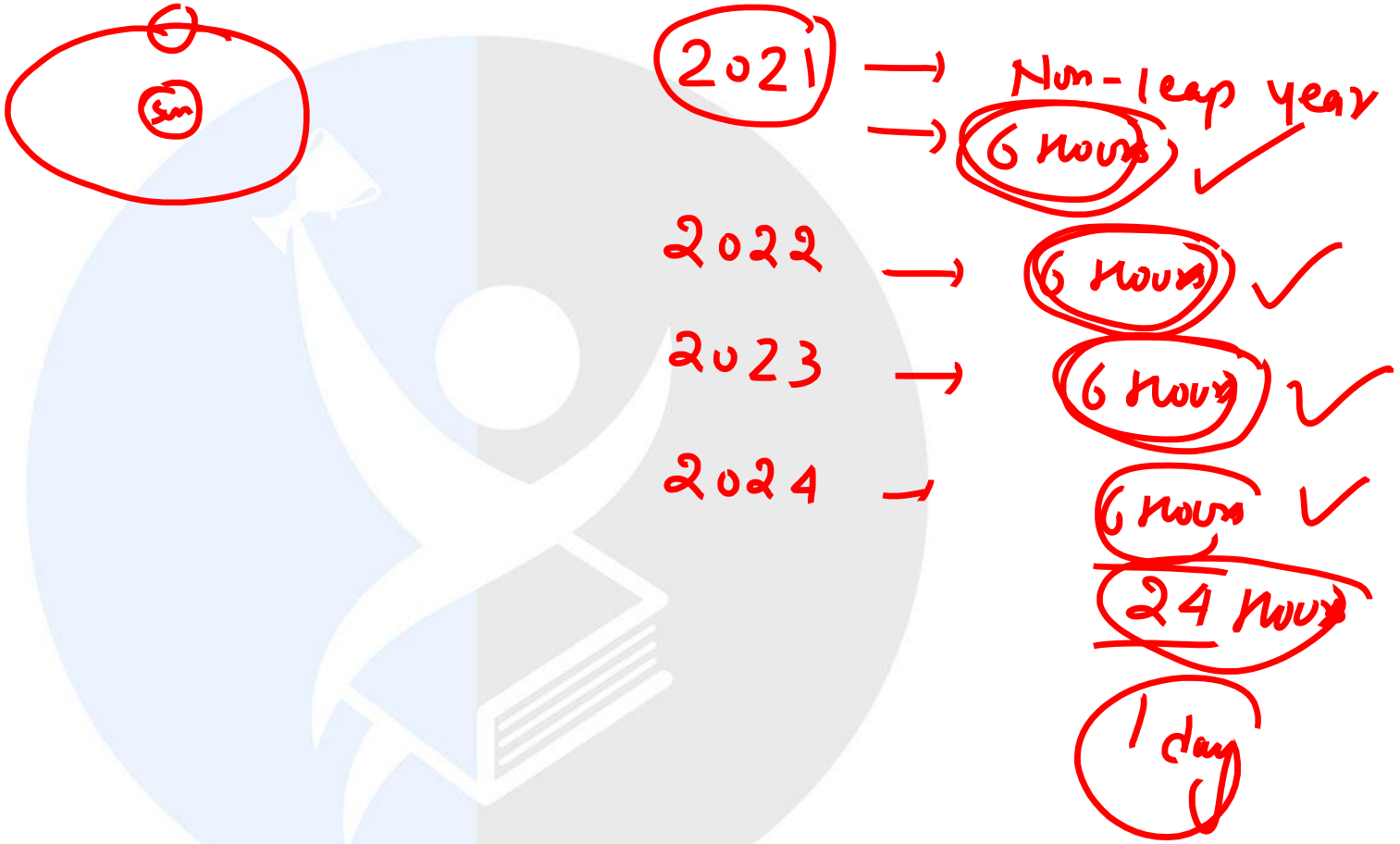
GENERAL APTITUDE

CALENDAR


Calendar
366
365
12 month
52 weeks
7) 365 (52
35
15
14
1
7) 366 (52
35
16
14
2


Sun
2021
Non-leap year
6 hours
2022
6 hours
2023
6 hours
2024
6 hours
24 hours
1 day

Leap Year:

Below criteria must be considered to identify leap years:

(i) It should be divisible by 4

(ii) ~~And if it is divisible by 100, it should also be divisible by~~ 400.

Note:

- **A leap year has 366 days i.e. 52 weeks and 2 odd days.**
- **Every 4th century is a leap year and no other century is a leap year**

Examples:

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

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

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

2023 → Ordinary year — 365

Eg.

Tuesday

1 Jan 2023

Tuesday

31 Dec 2023

Leap year 366

Eg.

Friday

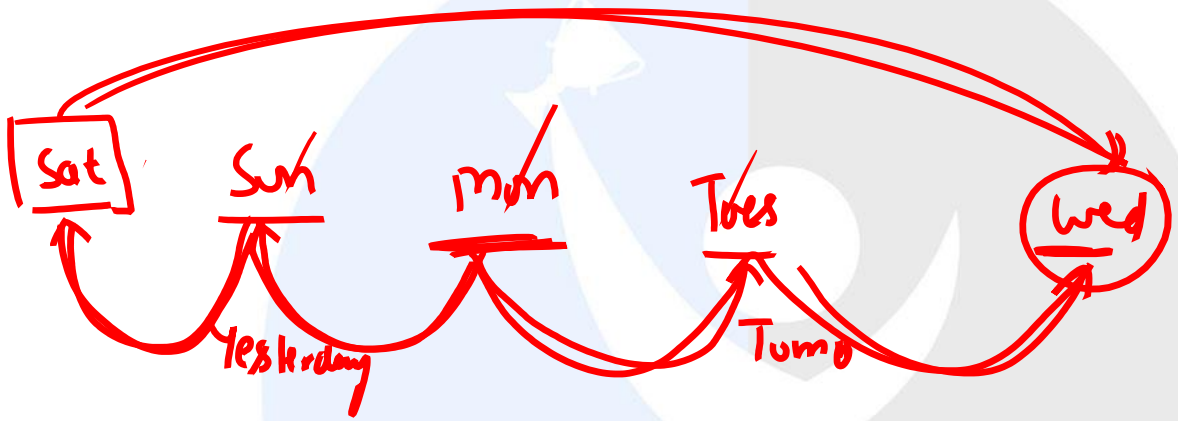
1 Jan 2024

- Saturday

31 Dec 2024

CC

- If the day before yesterday was Saturday, what day will fall on the day after tomorrow?
  (1) Friday (2) Thursday (3) Wednesday (4) Tuesday



1 Nov 2023

↓

Wed

Codes

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Ordinary	1	4	4	0	2	5	0	3	6	1	4	6
Leap	0	3										

Day	Code
Sun	1
Mon	2
Tue	3
Wed	4
Thu	5
Fri	6
Sat	0

Century	Code
1600	6
1700	4
1800	2
1900	0
2000	6

1 Nov 2023 → Wed

$$\text{Day's code} = \frac{\text{Date} + \text{month} + \text{year} + \text{century} + \text{leapyear}}{7}$$

$$\text{Day's code} = \frac{1 + 4 + 23 + 6 + 5}{7} = \frac{39}{7}$$

Remainder = 4

Example 2: What day of the week was on 5 June 1999?

(1) Friday (2) Saturday

(3) Sunday (4) Monday

1 1 1 1 1 1

1 4 4 0 2 5 0 3 C

6 –

4 –

2 –

0 –

4 | 99 | 24

8

19

16

Day's code = $\dfrac{5 + 5 + 99 + 0 + 24}{7}$

7 | 133 | 19

7

63

63

0

Example 3: What day of the week was on 15 April 2014?
(1) Monday (2) Tuesday (3) Wednesday (4) Thursday

$$= \frac{15 + 0 + 14 + 6 + 3}{7}$$

$$\Rightarrow \begin{array}{r|l} 7 & 38 \\ \hline & 35 \\ \hline & 3 \end{array} \quad 5$$

1
2
3

1 4 4 0
— 6
— 4
— 2
— 0

It was Wednesday on 1 January 2000. What would be the day on 1 January 2001?

(1) Monday (2) Wednesday (3) Thursday (4) Friday

- If the day after tomorrow is NOT Friday then which of the following day CANNOT be the day before the day before yesterday?

(1) Sunday (2) Monday (3) Tuesday (4) Wednesday

What day of the week was on 15 MAY 1995?

(1) Monday (2) Thursday (3) Friday (4) Saturday

1 1 1 1 1

14 4 0 2

Day's code = $\frac{15 + 2 + 95 + 0 + 23}{7}$

$$\begin{array}{r|l} 7 & 135 \\ & 7 \\ \hline & 65 \\ & 63 \\ \hline & 2 \end{array} \quad (19$$

1

2

$$\begin{array}{r|l} 4 & 95 \\ & 8 \\ \hline & 15 \\ & 12 \\ \hline \end{array} \quad (23$$

What day of the week was on 15 April 1983?

(1) Wednesday (2) Thursday (3) Friday (4) Saturday

$$= \frac{15 + 0 + 83 + 0 + 20}{7}$$

$$= 7 \overline{)118} (16$$

$$\begin{array}{r} 7 \\ \hline 48 \\ 42 \\ \hline 6 \end{array} \rightarrow \text{Friday}$$

What day of the week was on 5 April 1968?

(1) Wednesday (2) Thursday (3) Friday (4) Saturday

What day of the week was on 12 JUNE 1983?

(1) Wednesday (2) Thursday (3) Friday (4) Sunday

THANK YOU

HAPPY LEARNING