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Calendar Class Notes

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CALENDAR

Concepts:

1. With respect to Days
2. With respect to Weeks
3. With respect to Months (28/29/30/31 days)
4. With respect to Years (Leap/Non Leap years)
5. With respect to Century (100 years)

Date
(M - Sunday)

CALENDAR

With respect to Days:

Sunday after 19th Day Friday

5 odd days

Sunday + 5
8th → Friday

19
7

$$\frac{8}{7} =$$

$$\begin{array}{r} 7 \overline{) 19} \\ \underline{14} \\ 5 \end{array}$$

$$\begin{array}{r} 7 \overline{) 8} \\ \underline{7} \\ 1 \end{array}$$

Remainder ← Odd Days

Monday - 9th Day

7th Day - Monday + 2
= 9th = Wednesday

0 1 2 3 4 5 6 7
S M Tu W Thu Fri Sat Su



CALENDAR

With respect to Weeks: (← HUE)

7 days - 1 week
(Repeat)

Divide by 7

1 Month - 4 weeks

- Odd Number (Remainder)

28 - 4 weeks

29 - 4 weeks 1 day

30 - 4 weeks 2 days

31 - 4 weeks 3 days

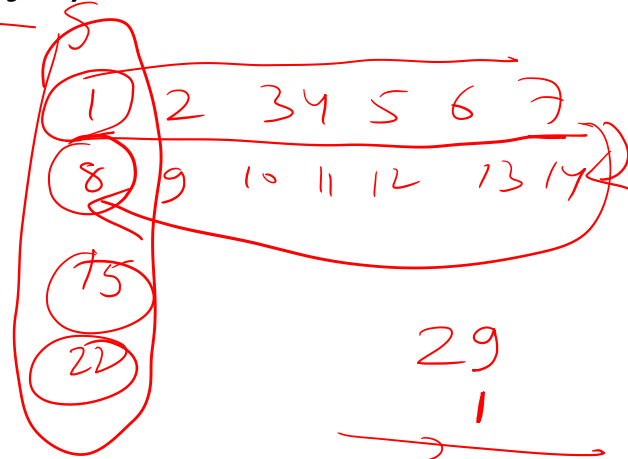
CALENDAR

$$\begin{array}{r} 28 - 0 \\ 29 - 1 \\ 30 - 2 \\ 31 - 3 \end{array}$$

31 January 2004 - Sunday + 2
1st Mar 2004 - ? = Tuesday

With respect to months (28/29/30/31 days)

February - 28 days.
 Leap year Feb - 29 days
 April/June/Sept/Nov - 30 days
 Remaining - 31 days



2004 - leap year
 Feb - 29 days

$$\begin{array}{r} 29 \\ 1 \\ \hline 30 \end{array}$$

$$\frac{30}{7} = \text{odd \# days}$$

 = 2

2004 - Feb 29 days

$$\frac{4}{4} = 0$$

31 January 2001 - Monday
28 Feb 2001 - ?
(Mondays)st
 1st March -

CALENDAR

With respect to Years (Leap/ Non leap years)

~~0 odd days~~
2

1

Non LP

$$1 \text{ Year} - \frac{365 \text{ days}}{7}$$

$$= \text{Remainder } \underline{1} \text{ - Odd Day}$$

↓
31st Jan 2001 - Tuesdays

365 → 31st Jan 2002 - Wednesdays

2004 → 29

LP

$$1 \text{ Year} - \frac{366 \text{ days}}{7}$$

$$\frac{366}{7} \rightarrow \text{Remainder } \underline{2}$$

Odd Day 2

2nd Feb 2004 - Friday + 2

2nd Feb 2005 - Sunday

$$\frac{\underline{366}}{7} = \text{Odd Day } \underline{2}$$

CALENDAR

With respect to Century (100 years):

$\frac{400 \text{ years}}{800 \text{ years}} = 0 \text{ odd}$
 $\frac{1200}{1600} = 0 \text{ odd}$

$\frac{2000 \text{ years}}{2000 \text{ years}} = 1 \text{ odd}$
 IIII
 II
 L L L

1st Jan 2001 - ~~Monday~~
 Sunday
 $\frac{124}{7} = 17 \frac{4}{7}$
 $\frac{4}{7} = 0 \text{ Day}$

$\frac{100 \text{ years}}{100 \text{ years}} = 1 \text{ odd}$
 $\frac{100 \text{ years}}{100 \text{ years}} = 1 \text{ odd}$
 $\frac{100 \text{ years}}{100 \text{ years}} = 1 \text{ odd}$
 $\frac{100 \text{ years}}{100 \text{ years}} = 1 \text{ odd}$
 $\frac{400 \text{ years}}{700 \text{ years}} = 20 + 1$
 $= \frac{21}{7} = 0 \text{ Day}$

Days
Week
Mon
Year
Century

$$\frac{80}{7} = \text{Odddry}$$
$$7 \quad = \underline{\underline{3}}$$

$$7 \overline{) 80} (11$$
$$\underline{77}$$
$$\textcircled{3}$$

$$\text{Mondays} + \underline{3}$$
$$= \underline{\text{Thursday}}$$

Question No 1:

Which day comes after 80 days from a Monday?

- a. Tuesday
- b. Friday
- c. Thursday
- d. Sunday

Question No 2:

Which day falls on 75 days before a Sunday?

$$\begin{array}{r} 75 \\ \hline 7 \end{array}$$

Remainder = 5

- a. Friday
- ~~b. Tuesday~~
- c. Wednesday
- d. Saturday

$$\underline{\text{Sunday}} - 5 = \underline{\text{Tuesday}}$$

|||||

	<u>odd</u>
NLY - 2023 -	1
LY 2024 -	2
2025 -	1
2026 -	1
2027 -	1
→ 2028 -	<u>2</u>
odd days → $\frac{8}{7}$	
Remainder = <u>1</u>	

Saturday + 1 → Sunday

Question No 3:

If it was Saturday on 12th November 2022, then what will be the day on 12th November 2028?

- a. Thursday
- b. Sunday
- c. Monday
- d. Tuesday

CGL / CHSL / GD / Staff / MTS

2014

Oct → Nov

(1-2)

25

Question No 4:

If it was Saturday on 2nd October 2014
then what will be the day on 2nd November
2014?

- a. Thursday
- b. Sunday
- c. Monday
- d. Tuesday

Days → 31

$\frac{31}{7}$

Odd Days - (3)

Saturday + 3

||| = Tuesday

1st

2000 years -	0
2001	1
2002	1
2003	2
2004	1
2005	1
2006	1
2007	2
2008	1
2009	1
2010	6

Odd Days = 17

0
Sun
←

Question No 5:

Today → 7th Dec 2022 - Wed

What was the day of the week on 6th January 2010?

- a. Friday
- b. Thursday
- c. Wednesday
- d. Tuesday

2nd

6th Dec 2022 - Tues
 → 6th Jan 2023 - (3)
 31 (Friday)

6th Jan 2010 - ?
 6th Jan - 2023 (Friday)
 6th Jan 2010 - 1

$\frac{17}{7} = \text{Remainder} - (3)$

Sunday + 3 → Wednesday
 6th Jan 2023

Friday - 2
 Wed
 6th Jan 2010 - $\frac{16}{7} = (2)$

2014	-1
2013	-1
2012	-2
2011	-1
2010	-1
<hr/>	
16	

400 years
 800
 1200 → 0
 1600

1600 - 1700
 1700 - 1800
 1800 - 1900
 1900 - 1946

5
 5
 5
 57
 31

103
 7

46
 4

11 Leap → (11 × 2) = 22
 35 NLP → (35 × 1) = 35

Question No 6:

What was the day of the week on the day of Independence day in 1947?

- a. Friday
- b. Tuesday
- c. Monday
- d. Thursday

15th Aug 1947

— Sunday + 5
 = Friday

$\frac{103}{7} = 5 \text{ odd days}$

NLP
 46
 11
 35

Jan 1947	—	3
Feb	—	0
Mar	—	3
April	—	2
May	—	3
June	—	2
July	—	3
Aug	—	15

31 days

7) 103 (14)
 7
 33
 28
5

$$\frac{76}{4} = 0$$

$$\begin{array}{r} 1976 - 2 \\ \hline 1977 - 1 \\ \hline 78 - 1 \\ \hline 79 - 1 \\ \hline 1980 - 2 \\ \hline 81 - 1 \\ \hline 1982 - 1 \\ \hline \end{array}$$

$$\frac{8}{7}$$

Remainder - 1

Question No 7:

If it was Sunday on 1st January 1976, then what was the day on 1st January 1982?

- a. Monday
- b. Friday
- c. Wednesday
- d. Thursday

Sunday + 1
= Monday

Aug 2022	- 19		
Sep	- 2		2
Oct	- 3		13
Nov	- 2		19
Dec	- 3		18
Jan 2023	- 3		50
Feb 2023	- 18		50
			7

Feb = 1

Question No 8:

If it was Friday on 12th August 2022, then what will be the day on 18th February 2023?

- a. Saturday
- b. Sunday
- c. Monday
- d. Thursday

Friday + 1
= Saturday

Question No 9:

If it was Monday on 1st February 2030, then what was the day on 23rd March 2031?

1st Feb - 2030 → 1
~~1st Feb - 2031~~
~~28~~ → ~~1~~
Mar 2031 → 23
24 days

28
7

28 days
70

24
7 = remainder - 3

- a. Thursday
- b. Monday
- c. Saturday
- d. Friday

Monday + 3 →
~~1~~

Thank You