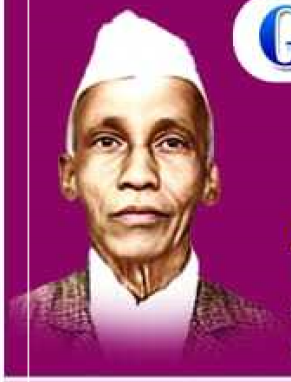
ANDHRA PRADESH MATHEMATICS FORUM
(APMF)

REGD. 251/2023

GANITHA CALENDAR



D.R. KAPREKAR: (1905-1986)

Indian recreational Mathematician. He described several classes of natural numbers including Harshad numbers, self numbers. 6174 is a Kaprekar constant.

2024
JANUARY

Prime number: The number whose only factors are 1 and the number itself
Composite number: The number having more than two factors

SUN	MON	TUE	WED	THU	FRI	SAT
	1 Niether Prime nor Composite	2 Prime number Factors:1,2	3 Prime number Factors:1,3	4 Composite number Factors:1,2,4	5 Prime number Factors:1,5	6 Composite number Factors:1,2,3,6
7 Prime number Factors:1,7	8 Composite number Factors:1,2, 4,8	9 Composite number Factors:1,3,9	10 Composite number Factors:1,2,5,10	11 Prime number Factors:1,11	12 Composite number Factors:1,2,3,4, 6,12	13 Prime number Factors:1,13
14 Composite number Factors:1,2,7,14	15 Composite number Factors:1,3,5,15	16 Composite number Factors:1,2,4, 8,16	17 Prime number Factors:1,17	18 Composite number Factors:1,2,3,6, 9,18	19 Prime number Factors:1,19	20 Composite number Factors:1,2,4,5, 10,20
21 Composite number Factors:1,3, 7,21	22 Composite number Factors:1,2, 11,22	23 Prime number Factors:1,23	24 Composite number Factors:1,2,3,4, 6,8,12,24	25 Composite number Factors:1,5,25	26 Composite number Factors:1,2, 13,26	27 Composite number Factors:1,3,9,27
28 Composite number Factors:1,2,4, 7,14,28	29 Prime number Factors:1,29	30 Composite number Factors:1,2,3,5, 6,10,15,30	31 Prime number Factors:1,31			

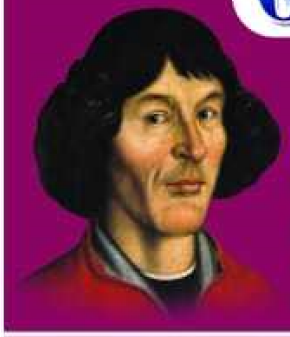
HOLIDAYS & IMPORTANT DAYS

1. New year
15.Makara Sankranthi
16.Kanuma
17.D.R.Kaprekar's birth day
23. David Hilbert Birth day
25.Legrange Birth day
25.Hajarat Ali jayanthi
26.Republic day

ANDHRA PRADESH MATHEMATICS FORUM
(APMF)

REGD. 251/2023

GANITHA CALENDAR



NICOLAUS COPERNICUS: (1473 – 1543)

Father of Astronomy. He is an Astronomer who proposed a heliocentric system that the planets orbit around the sun. He completed his first great work titled on the Revolutions of the Heavenly Spheres in 1530.

2024
FEBRUARY

Leap year: 2024 is a Leap year as it divides exactly by 4. So, February has 29 days.
Unique ness of this year 2024 we can make different numbers by using 2,0,2,4 digits
Factorial 4= 4! = 4x3x2x1=24, 0! = 1

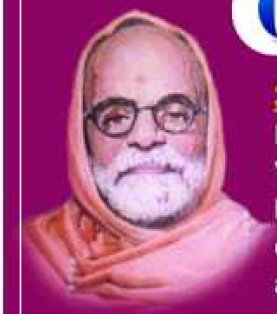
SUN	MON	TUE	WED	THU	FRI	SAT
HOLIDAYS & IMPORTANT DAYS 7. Shab e meeraj 7. G.H.Birth day 15. Gelelio Birth day 19. Kopernicus Birth day				1 $(2+0) \times \frac{2}{4}$	2 $2^\circ \times \frac{4}{2}$	3 $2^\circ + \frac{4}{2}$
4 $22^\circ \times 4$	5 $2+4-2^\circ$	6 $2^\circ \times (2+4)$	7 $2^\circ + (2+4)$	8 2+0+2+4	9 $2^\circ+(2x4)$	10 2+0+(2x4)
11 $2^\circ - \frac{4!}{2}$	12 $0 + \frac{4!}{2}$	13 $4^2 - (2+0!)$	14 20 - (2+4)	15 $-2^\circ + 4^2$	16 $2 \times 0 + 2^4$	17 $2^\circ + 2^4$
18 $2 + 0 + 2^4$	19 $2 + 0! + 2^4$	20 -(2+0+2)+4!	21 $22-4^\circ$	22 (-2)+0+24	23 $-(2)^\circ+24$	24 (2x0)+24
25 $(2)^\circ+24$	26 2+0+24	27 2+ 0! +24	28 2+0 +2+4!	29 2+0!+2+4!		

ANDHRA PRADESH MATHEMATICS FORUM

(APMF)

REGD. 251/2023

GANITHA CALENDAR



3. SRI BHARATHI KRISHNA TEERTHA : (1884 – 1960)

He is a Father of Vedic Maths. Vedic Maths came from the Vedas more specifically the Atharva veda. He published his work in a book ' Vedic Mathematics' in 1965 which comprises 16 sutras and 13 sub sutras. NASA has also applied certain concepts from Vedic Mathematics to artificial intelligence.

2024

MARCH

Square: When a natural number is multiplied by itself, the resultant is a square. Square root of a number is a value that can be multiplied by itself to give the original number.

Cube: When a number multiplied by the same three times, the resultant is a cube. Cube root of a number is a value that can be multiplied by itself three times to give the original number.

SUN	MON	TUE	WED	THU	FRI	SAT
31 $\sqrt{961}$	**HOLIDAYS & IMPORTANT DAYS** 3. George Cantor Birth day 8. Maha Siva raathri 14. Einstein Birth day 21. Aryabatta Birth day 25. Holi 29.Good Fri day				1 Perfect square & Perfect cube	2 $\sqrt{4}$
3 $\sqrt{9}$	4 Perfect square (2^2)	5 $\sqrt{25}$	6 $\sqrt[3]{216}$	7 $\sqrt{49}$	8 Perfect cube (2^3)	9 Perfect square(3^2)
10 $\sqrt[3]{1000}$	11 $\sqrt{121}$	12 $\sqrt[3]{1728}$	13 $\sqrt{169}$	14 $\sqrt[3]{2744}$	15 $\sqrt{225}$	16 Perfect square(4^2)
17 $\sqrt[3]{4913}$	18 $\sqrt{324}$	19 $\sqrt[3]{6859}$	20 $\sqrt{400}$	21 $\sqrt[3]{9261}$	22 $\sqrt{484}$	23 $\sqrt[3]{12167}$
24 $\sqrt{576}$	25 Perfect square(5^2)	26 $\sqrt[3]{17576}$	27 Perfect cube (3^3)	28 $\sqrt[3]{21952}$	29 $\sqrt{841}$	30 $\sqrt[3]{27000}$

ANDHRA PRADESH MATHEMATICS FORUM

(APMF)

REGD. 251/2023

GANITHA CALENDAR

SHAKUNTALA DEVI (1929-2013)

Indian Mathematician, Mental caluculator, Writer
Popularly Known as the Human Computer.

2024

APRIL

Prime factorization: The process to express the given number as the product of prime numbers.
Eg: 6 = 2x3 . Some prime numbers have unique character. Eg: 2 is a even prime.
Twin Primes: Prime numbers that differ by two. Eg: 7,5. Cousin primes: Prime numbers that differ by four. Eg: 23,19
Sexy primes: Prime numbers that differ by six. Eg: 13,19

SUN	MON	TUE	WED	THU	FRI	SAT
	1	2 Even prime	3 Only prime that successor to a prime	4 2 x 2	5 Sum of first two primes & Twin prime	6 2 x 3
7 Largest single digit prime & twin prime	8 2 x 2 x 2	9 3 x 3	10 2 x 5	11 Smallest two digit prime	12 2 x 2 x 3	13 Sexy prime
14 2 x 7	15 3 x 5	16 2x2x2x2	17 Cousin prime	18 2 x 3 x 3	19 Sexy prime & Cousin prime	20 2 x 2 x 5
21 3 x 7	22 2 x 11	23 Sexy prime	24 2x2x2x3	25 5 x 5	26 2 x 13	27 3 x 3 x 3
28 2 x 2 x 7	29 Sexy prime	30 2 x 3 x 5				

HOLIDAYS & IMPORTANT DAYS

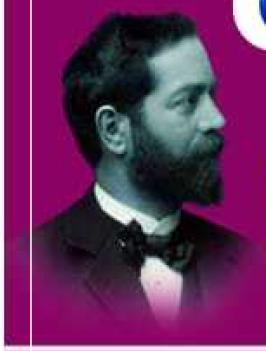
1. Shahadat Hajarath Ali
5. Jamuthul vedaa
5. Jagjeevan Ram Jayanthi
9. Ugadhi
11. Ramjaan
15. Euler Birth day
17. Sri Rama Navami
21. Sakunthala Devi Vardhanthi
30. C.F. Gauss Birth day

ANDHRA PRADESH MATHEMATICS FORUM

(APMF)

REGD. 251/2023

GANITHA CALENDAR



CHRISTIAN FELIX KLEIN (1849 – 1925)

German Mathematician. He was known for his work in group theory, complex analysis, non- Euclidean geometry and on the connections between geometry and group theory.

2024

MAY

Roman Numeral system: Roman numerals are number system that originated in ancient Rome and remained the usual way of writing numbers throughout world. There are seven alphabets to represent basic Roman numerals. These are I,V,X,L,C,D,M

SUN	MON	TUE	WED	THU	FRI	SAT
HOLIDAYS & IMPORTANT DAYS 10. Basava Jayanthi 23. Buddha Poornima 25. Felix Klein Birth day			1 I	2 II	3 III	4 IV
5 V	6 VI	7 VII	8 VIII	9 IX	10 X	11 XI
12 XII	13 XIII	14 XIV	15 XV	16 XVI	17 XVII	18 XVIII
19 XIX	20 XX	21 XXI	22 XXII	23 XXIII	24 XXIV	25 XXV
26 XXVI	27 XXVII	28 XXVIII	29 XXIX	30 XXX	31 XXXI	

ANDHRA PRADESH MATHEMATICS FORUM

(APMF)

REGD. 251/2023

GANITHA CALENDAR

PC MAHALANOBIS: (1893-1972)

Indian Mathematician. For his contributions, ahalanobis has been considered the father of modern statistics in INDIA.

2024

JUNE

June is the 6th month of the year. We can make different numbers only with digit 6.

SUN	MON	TUE	WED	THU	FRI	SAT
30 $6 \times 6 - \frac{6}{6}$	**HOLIDAYS & IMPORTANT DAYS** 25. Ed Agadheer 17. Bakrid 14. Neelakanta Somayaji Birth day 19. Pascal Birth day 27. A.D.Morgan Birth day 29. P.C. Mahlonabis Birth day					**1** $(6+6+6+6)^0$
2 $\frac{6}{6} + \frac{6}{6}$	**3** $(6^0+6^0+6^0)\,6^0$	**4** $6^0+6^0+6^0+6^0$	**5** $(6 - 6^0)\frac{6}{6}$	**6** $6 - 6^0 + \frac{6}{6}$	**7** $\frac{6 \times 6}{6} + 6^0$	**8** $(6+6^0+6^0)\times 6^0$
9 $6^0+6^0+6^0+6$	**10** $6 + 6 - 6^0 - 6^0$	**11** $6 + 6 - \frac{6}{6}$	**12** $(6 + 6)\frac{6}{6}$	**13** $(6 + 6 + 6^0)\,6^0$	**14** $6 + 6 + 6^0 + 6^0$	**15** $6 + 6 + 6^0 + 6^0 + 6^0$
16 $6+6+6-6^0 - 6^0$	**17** $6+6+6-6^0$	**18** $(6+6+6)6^0$	**19** $6+6+6+6^0$	**20** $6+6+6+6^0+6^0$	**21** $\frac{6!}{6 \times 6} + 6^0$	**22** $\frac{6!}{6 \times 6} + 6^0 + 6^0$
23 $\frac{66}{6} + 6 + 6$	**24** $6+6+6+6$	**25** $\frac{6!}{6 \times 6} + 6 - 6^0$	**26** $\frac{6!}{6 \times 6} + 6$	**27** $\frac{6!}{6 \times 6} + 6 + 6^0$	**28** $6 \times 6 - (6+6^0+6^0)$	**29** $6 \times 6 - (6+6^0)$

ANDHRA PRADESH MATHEMATICS FORUM

(APMF)

REGD. 251/2023

GANITHA CALENDAR

GOTTFRIED WILHELM LEIBNIZ (1646 – 1716)

German Mathematician. His major contribution to Mathematics was his discovery of the binary numeral system or the Base-2 system which we find today in computers and related devices.

2024

JULY

Rational numbers: Numbers which can be expressed as $\frac{a}{b}$, where a, b are integers and $b \neq 0$

BODMAS rule is used to simplify expressions in mathematics

SUN	MON	TUE	WED	THU	FRI	SAT
	1 $\frac{1}{6}+\frac{5}{6}$	2 $\frac{13}{5}-\frac{3}{5}$	3 $\frac{3}{4}\times 4$	4 $\frac{2}{9}\div\frac{1}{18}$	5 $\frac{21}{5}+\frac{4}{5}$	6 $\frac{25}{3}-\frac{7}{3}$
7 $\frac{35}{2}\times\frac{2}{5}$	8 $12\div\frac{3}{2}$	9 $\frac{29}{3}+(-\frac{2}{3})$	10 $\frac{46}{5}-(-\frac{4}{5})$	11 $\frac{-22}{3}\times\frac{-3}{2}$	12 $(-\frac{14}{5})\div(-\frac{7}{30})$	13 $(-\frac{1}{2})+\frac{27}{2}$
14 $\frac{66}{5}-(-\frac{4}{5})$	15 $\frac{25}{2}\times\frac{6}{5}$	16 $\frac{12}{5}\div\frac{3}{20}$	17 $\frac{15}{2}+\frac{19}{2}$	18 $(-\frac{1}{3})-(-\frac{55}{3})$	19 $\frac{38}{7}\times 3\frac{1}{2}$	20 $(-\frac{4}{3})\div(-\frac{1}{15})$
21 $10\frac{1}{2}+10\frac{1}{2}$	22 $23\frac{1}{5}-1\frac{1}{5}$	23 $5\frac{1}{5}\times 2\frac{1}{2}$	24 $36\div 1\frac{1}{2}$	25 $20-7+12$	26 $(-10)+2\times 18$	27 $49-2\times 11$
28 $3+50\div 2$	29 $1+2\times 14$	30 $5\times 12\div 2$	31 $66-5\times 7$			

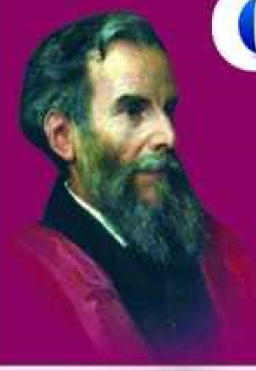
HOLIDAYS & IMPORTANT DAYS

1. Leibnitz Birth day
16. 9th Moharam
17. Moharam
22. Pi Approximation Day
31. Gabrial Crammer Birth day

ANDHRA PRADESH MATHEMATICS FORUM
(APMF)

REGD. 251/2023

GANITHA CALENDAR



JOHN VENN (1834 – 1923)

He was an English logician and philosopher. He is remembered for inventing the diagram that bears his name the Venn diagram. These diagrams are used in logic, set theory, probability, computer science and statistics.

2024
AUGUST

Percentages: Percent is a number or ratio expressed as a fraction of 100.

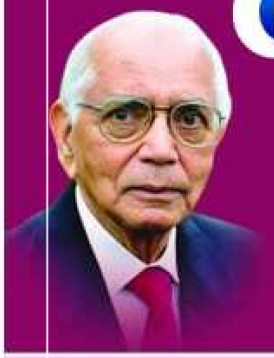
SUN	MON	TUE	WED	THU	FRI	SAT
HOLIDAYS & IMPORTANT DAYS 4. John Venn Birth day 15. Indipendence Day 15. Parsi New Year 16. Varalakshmi Vratham 20. Fermat Birth day 26. Krishnastami				1 10% of 10	2 50% of 4	3 20% of 15
4 20% of 20	5 50% of 10	6 30% of 20	7 50% of 14	8 10% of 80	9 30% of 30	10 5% of 200
11 25% of 44	12 30% of 40	13 100% of 13	14 7% of 200	15 30% of 50	16 4% of 400	17 20% of 85
18 36% of 50	19 10% of 190	20 40% of 50	21 7% of 300	22 20% of 110	23 25% of 92	24 60% of 40
25 50% of 50	26 13% of 200	27 90% of 30	28 200% of 14	29 25% of 116	30 60% of 50	31 25% of 124

ANDHRA PRADESH MATHEMATICS FORUM

(APMF)

REGD. 251/2023

GANITHA CALENDAR



C.R. RAO (10 SEP.1920 - 22 AUG.2023)

Indian American Mathematician and statistician. He is famous for his Theory of Estimation. He is the author of 14 books and has published over 400 journal publications.

2024

SEPTEMBER

Binary system: A Binary number system is one of the four types of number system.
In computer applications, where binary numbers are represented by only two symbols or digits , i.e. 0 and 1

SUN	MON	TUE	WED	THU	FRI	SAT
1 1_2	2 10_2	3 11_2	4 100_2	5 101_2	6 110_2	7 111_2
8 1000_2	9 1001_2	10 1010_2	11 1011_2	12 1100_2	13 1101_2	14 1110_2
15 1111_2	16 10000_2	17 10001_2	18 10010_2	19 10011_2	20 10100_2	21 10101_2
22 10110_2	23 10111_2	24 11000_2	25 11001_2	26 11010_2	27 11011_2	28 11100_2
29 11101_2	30 11110_2					

HOLIDAYS & IMPORTANT DAYS

3. J.J Sylvester Birth day
5. Teachers Day
7. J.N.Kapur Birth day
7. Vinayaka Jayanthi
10. C.R. Rao Birth day
16. Milad unnabi

ANDHRA PRADESH MATHEMATICS FORUM

(APMF)

REGD. 251/2023

GANITHA CALENDAR

HARISH – CHANDRA MEHROTRA (1923 – 1983)

Indian - American Mathematician. His profound contributions to the representation theory of Lie groups, Harmonic analysis and related areas. He is second greatest modern Mathematician after Ramanujan. He was awarded Padma Bhushan in 1977.

2024

OCTOBER

Exponents: Very Large numbers or Very small numbers are expressed in terms of exponents.

$100000 = 10 \times 10 \times 10 \times 10 \times 10 \rightarrow 10^5$; $a^m = a \times a \times a \times a \times \ldots\ldots$ m times $a^m \rightarrow$ a is base, m is exponent.

Exponents laws : $a^m \times a^n = a^{m+n}$, $a^m \div a^n = a^{m-n}$, $(a^m)^n = a^{mn}$, $\frac{1}{a^{-1}} = a^m$, $a^0 = 1$

SUN	MON	TUE	WED	THU	FRI	SAT
HOLIDAYS & IMPORTANT DAYS 2. Gandhi Jayanthi 2. Mahalaya Amavasya 11. Hareesh Chandra Birth day		1 $(2024)^\circ$	2 $2^4 \div 8$	3 $3^3 \times 3^{-2}$	4 $2^4 \div 2^2$	5 $625 \div 5^3$
6 $2^2 \times 3 \times 2^{-1}$	7 $7^3 \times 7^{-2}$	8 $2^2 \times 2$	9 $3^7 \div 3^5$	10 $2^4 \times 2^{-3} \times 5$	11 $7 + 2^2$	12 $2^2 \times 3^3 \times 3^{-2}$
13 $3^2 + 2^2$	14 56×2^{-2}	15 $120 \div 2^3$	16 $(2^2)^2$	17 $17^{-5} \times 17^6$	18 $2^4 \times 3^2 \times 2^{-3}$	19 $19^{-3} \times 19^4$
20 $2^5 \times 2^{-3} \times 5$	21 $3^4 \div 3^3 \times 7$	22 $2^9 \times 2^{-8} \times 11$	23 $23^2 \times \frac{1}{23}$	24 $2^7 \div 4^2 \times 3$	25 $5^4 \div 5^3 \times 5$	26 $13 \times 2^4 \times 2^{-3}$
27 $4^2 \times 2^{-4} \times 27$	28 $2^4 \div 2^2 \times 7$	29 $29^2 \times \frac{1}{29}$	30 $\frac{1}{2^{-1}} \times 3^1 \times 5^1$	31 $31^4 \times 31^{-3}$	**HOLIDAYS & IMPORTANT DAYS** 11. Durgastami 15. AzDhahamShariff 31. Deepavali	

ANDHRA PRADESH MATHEMATICS FORUM

(APMF)

REGD. 251/2023

GANITHA CALENDAR

LAKKOJU SANJEEVARAYA SHARMA (1907-1998)

Indian Mathematician. He born at Proddatur of YSR Kadapa District in Andhra Pradesh He gave many Mathematical Avadhanams. he was awrded as Ganitha Brahma.

2024

NOVEMBER

Trigonometric functions are related to an angle of a right angled triangle to ratios of two side lengths.
They are widely used in all sciences that are related to geometry such as navigation, celestial mechanics etc..

SUN	MON	TUE	WED	THU	FRI	SAT
HOLIDAYS & IMPORTANT DAYS 2. George Boole Birth day 4. Sakunthala Devi Birth day 15. Karthik poornima/ GurunanakJayanthi 22. LakkojuSanjeevaRaya Sharma Birth day 23. Fibonacci Day					**1** Tan 45°	**2** sec60°
3 Cot 45° + Cosec 30°	**4** Sec60° x Cosec30°	**5** Cos0° x 2 sec60°	**6** 2(tan 45° + cosec30°)	**7** 3sec60° + cot 45°	**8** $cosec^2$ 30° + sec^2 60°	**9** 3 (tan^2 60°)
10 5($cosec^2$ 45°)	**11** 3(sec^2 60°) – sin90°	**12** 4(sec60° + cos 0°)	**13** 5cosec30° + 3cot 45°	**14** 7(sin90° + cos 0°)	**15** Cot 45° +7sec 60°	**16** 4(sec^2 60°)
17 4(sec^2 60°) + sin90°	**18** Sec60° (3tan^2 60°)	**19** 4(sec^2 60°) +3cot45°	**20** 5(sec^2 60°)	**21** 7cot30° x tan60°	**22** 11(sin90° + cos0°)	**23** 8 cot^2 30° – cot 45°
24 8 (tan^2 60°)	**25** 5(cos0° + 2sec60°)	**26** 5$cosec^2$ 30° + 6cos0°	**27** 13sec60° + tan 45°	**28** 7$cosec^2$ 30°	**29** 14sec60° + tan 45°	**30** 6($cosec^2$ 30 + cot45°)

ANDHRA PRADESH MATHEMATICS FORUM
(APMF)

REGD. 251/2023

GANITHA CALENDAR

SRINIVASA RAMANUJAN (1887-1920)
Indian Mathematician. His vast contributions to the field of mathematics, especially number theory. 1729 is a Ramanujan Number

2024
DECEMBER

Ramanujan's number 1729 is a special as it can be written as $10^3 + 9^3$ or $12^3 + 1^3$. Every number is unique

SUN	MON	TUE	WED	THU	FRI	SAT
1 Multiplicative Identity	**2** First prime	**3** Sum of first three whole numbers	**4** First composite number	**5** Sum of first two primes	**6** First common multiple of first two primes	**7** Largest single digit prime
8 Largest single digit cube	**9** Sum of all digits of any multiple of 9	**10** Sum of first three primes	**11** Smallest two digit prime	**12** Sum of first three even numbers	**13** Sum of squares of first two primes	**14** Sum of squares of first three natural numbers
15 Sum of first five natural numbers	**16** Sum of first four odd numbers	**17** Sum of all single digit primes	**18** Sum of first three composites	**19** Formed by first and last digits of Ramanujan's number	**20** Sum of squares of first two even numbers	**21** Number of two digit prime numbers
22 Product of first single digit and double digit primes	**23** Formed by first two primes	**24** Product of first two composite numbers	**25** Sum of first five odd numbers	**26** Only integer that is one greater than a square and one less than a cube	**27** First composite not divisible by any of its digits	**28** Sum of first five non prime numbers
29 Number of days in February of leap year	**30** Product of first three primes	**31** Happy number				

HOLIDAYS & IMPORTANT DAYS

22. Srinivasa ramanujan Birth day
24. Chrstamas Eve
25. Christamas
25. Newton Birth day
26. Boxing Day
26. Charles Babbage Birth day
27. Bernouli Jakob Birth day

Prepared by Y. ESWARA REDDY SA (Maths) APMF Visakhapatnam - 9493025589