

2024-2025

Calendar & Planner



Guru Harkrishan Public School

Affiliated to CBSE, New Delhi
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April

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

2024



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	01 Neither Prime nor Composite	02 Prime number Factors:1,2	03 Prime number Factors:1,3	04 Composite number Factors:1,2,4	05 Prime number Factors:1,5	06 Composite number Factors:1,2,3,6
07 Prime number Factors:1,7	08 Composite number Factors:1,2,4,8	09 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				

- 03- New Session Commences 2024-25
- 07- World Health Day
- 10- Cheti Chand
- 11- Id-UI-Fitr
- 13- Baisakhi
- 14- Dr. Ambedkar Jayanti
- 15- World Art Day
- 17- Ram Navami
- 18- World Heritage Day
- 21- Mahavir Jayanti
- 22- World Earth Day
- 23- World Book and Copyright Day
- 27- Parent-Teacher Meeting
- 29- International Dance Day



May

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

2024

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			01 I	02 II	03 III	04 IV
05 V	06 VI	07 VII	08 VIII	09 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	

- 01- International Labour Day
 - 03- Press Freedom Day
 - 08- Rabindranath Tagore Jayanti
 - 09- Maharana Pratap Jayanti
 - 10- Parshuram Jayanti
 - 11- National Technology Day
 - 12- Mother's Day
 - 23 -Buddha Purnima
- Periodic Test
9th May- 16th May
- Summer Vacation
17th May- 30th June



Guru Harkrishan Public School, SGNR

June-2024



“Life is a maths equation. In order to gain the most, you have to know how to convert negatives into positives”

SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT
						01	02	03	04	05	06	07	08
09	10	11	12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30						

June

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

2024



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30 $6 \times 6 - \frac{6}{6^\circ}$						01 $(6+6+6+6)^\circ$
02 $\frac{6}{6} + \frac{6}{6}$	03 $(6^\circ+6^\circ+6^\circ)6^\circ$	04 $6^\circ+6^\circ + 6^\circ + 6^\circ$	05 $(6 - 6^\circ) \frac{6}{6}$	06 $6 - 6^\circ + \frac{6}{6}$	07 $\frac{6 \times 6}{6} + 6^\circ$	08 $(6 + 6^\circ + 6^\circ) \times 6^\circ$
09 $6^\circ + 6^\circ + 6^\circ + 6$	10 $6 + 6 - 6^\circ - 6^\circ$	11 $6 + 6 - \frac{6}{6}$	12 $(6 + 6) \frac{6}{6}$	13 $(6 + 6 + 6^\circ) 6^\circ$	14 $6+6+6^\circ+6^\circ$	15 $6+6++6^\circ+6^\circ+6^\circ$
16 $6+6+6-6^\circ-6^\circ$	17 $6+6+6-6^\circ$	18 $(6+6+6)6^\circ$	19 $6+6+6+6^\circ$	20 $6+6+6+6^\circ+6^\circ$	21 $\frac{6!}{6 \times 6} + 6^\circ$	22 $\frac{6!}{6 \times 6} + 6^\circ + 6^\circ$
23 $\frac{66}{6} + 6 + 6$	24 $6+6+6+6$	25 $\frac{6!}{6 \times 6} + 6 - 6^\circ$	26 $\frac{6!}{6 \times 6} + 6$	27 $\frac{6!}{6 \times 6} + 6 + 6^\circ$	28 $6 \times 6 - (6+6^\circ+6^\circ)$	29 $6 \times 6 - (6+6^\circ)$

- 05- World Environment Day
- 07- World Food Safety Day
- 12- Anti Child Labour Day
- 14- World Blood Donor Day
- 17- Id-ul-Zuha
- 21- International Yoga Day
- 22- Kabir Jayanti



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.*

2024



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	01 $\frac{1}{6} + \frac{5}{6}$	02 $\frac{13}{5} - \frac{3}{5}$	03 $\frac{3}{4} \times 4$	04 $\frac{2}{9} \div \frac{1}{18}$	05 $\frac{21}{5} + \frac{4}{5}$	06 $\frac{25}{3} - \frac{7}{3}$
07 $\frac{35}{2} \times \frac{2}{5}$	08 $12 \div \frac{3}{2}$	09 $\frac{29}{3} + (-\frac{2}{3})$	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 $15\frac{1}{2} + 7\frac{1}{2}$	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 $66 - 5 \times 7$			

- 01- School Reopens after Summer Break
- 01- National Doctor's Day/National Chartered Accountant's Day
- 11- World Population Day
- 12- World Paper Bag Day
- 17- Muharram
- 21- Guru Purnima
- 26- Kargil Vijay Diwas
- 27- Guru Harkrishan Sahib Ji Gurpurab Celebration
- 28- World Nature Conservation Day
- 29- International Tiger Day
- 31- Munshi Premchand Jayanti





Guru Harkrishan Public School, SGNR

August-2024



“In mathematics, the art of proposing a question must be held of higher value than solving it.”

SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT
				01	02	03	04	05	06	07	08	09	10
11	12	13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30	31							

August

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

2024



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				01 10% of 10	02 50% of 4	03 20% of 15
04 20% of 20	05 50% of 10	06 30% of 20	07 50% of 14	08 10% of 80	09 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

- 02- Shraavan Shivratri
 - 06- Hiroshima Day
 - 09- Quit India Movement Day
 - 09- World Adivasi Day
 - 13-World Organ Donation Day
 - 15- Independence Day Celebration
 - 19-Raksha Bandhan
 - 21-National Senior Citizen's Day
 - 26-Janmashtami
 - 29-National Sports Day
 - 31- Parent-Teacher Meeting
- Periodic Test
17th August- 24th August



September

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

2024



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01 1_2	02 10_2	03 11_2	04 100_2	05 101_2	06 110_2	07 111_2
08 1000_2	09 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					

- 05- Teacher's Day
- 08- World Literacy Day
- 13- Ramdev Jayanti
- 14- Hindi Diwas
- 15- National Engineer's Day
*International Day of Democracy
- 16- Id-e-Milad

Half- Yearly Examination
21st September- 30th September



October

Exponents: Very Large numbers or Very small numbers are expressed in terms of exponents.
 $100000 = 10 \times 10 \times 10 \times 10 \times 10 = 10^5$; $a^m = a \times a \times a \times \dots \times a$, m times. $a^m \rightarrow a$ is base, m is exponent.
 Exponents laws: $a^m \times a^n = a^{m+n}$, $a^m \div a^n = a^{m-n}$, $(a^m)^n = a^{m \times n}$, $1/a^{(-m)} = a^m$, $a^0 = 1$.

2024



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		01 $(2024)^0$	02 $2^4 \div 8$	03 $3^3 \times 3^{-2}$	04 $2^4 \div 2^2$	05 $625 \div 5^3$
06 $2^2 \times 3 \times 2^{-1}$	07 $7^3 \times 7^{-2}$	08 $2^2 \times 2$	09 $3^7 \div 3^5$	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 $2^3 \times 2^{-3} \times 11$	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 $31^4 \times 31^{-3}$		

- 01- International Day for the Elderly
 - 02- Gandhi Jayanti
 - 03- Navratra Sthapna
 - 04- World Animal Welfare Day
 - 05- Parent-Teacher Meeting
 - 08- Indian Air Force Day
 - 10- World Mental Health Day
*National Postal Day
 - 11- Durgashtami
 - 12- Dussehra
 - 15- World Student's Day
 - 16- World Food Day
 - 26- Ganganagar Sthapna Diwas
 - 31- Ekta Diwas
 - 31- Deepawali
- Periodic Test
21st October- 26th October
- Deepawali Break
28th October- 3rd November





Guru Harkrishan Public School, SGNR

November-2024



“Mathematics is the most beautiful and most powerful creation of the human spirit.”

SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT
					01	02	03	04	05	06	07	08	09
10	11	12	13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30							

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.

2024



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					01 $\tan 45^\circ$	02 $\sec 60^\circ$
03 $\cot 45^\circ + \operatorname{Cosec} 30^\circ$	04 $\sec 60^\circ \times \operatorname{Cosec} 30^\circ$	05 $\cos 0^\circ + 2\sec 60^\circ$	06 $2(\tan 45^\circ + \operatorname{cosec} 30^\circ)$	07 $3\sec 60^\circ + \cot 45^\circ$	08 $\operatorname{cosec}^2 30^\circ + \sec^2 60^\circ$	09 $3(\tan^2 60^\circ)$
10 $5(\operatorname{cosec}^2 45^\circ)$	11 $3(\sec^2 60^\circ) - \sin 90^\circ$	12 $4(\sec 60^\circ + \cos 0^\circ)$	13 $5\operatorname{cosec} 30^\circ + 3\cot 45^\circ$	14 $7(\sin 90^\circ + \cos 0^\circ)$	15 $\cot 45^\circ + 7\sec 60^\circ$	16 $4(\sec^2 60^\circ)$
17 $4(\sec^2 60^\circ) + \sin 90^\circ$	18 $\sec 60^\circ (3\tan^2 60^\circ)$	19 $4(\sec^2 60^\circ) + 3\cot 45^\circ$	20 $5(\sec^2 60^\circ)$	21 $7\cot 30^\circ \times \tan 60^\circ$	22 $11(\sin 90^\circ + \cos 0^\circ)$	23 $8 \cot^2 30^\circ - \cot 45^\circ$
24 $8(\tan^2 60^\circ)$	25 $5(\cos 0^\circ + 2\sec 60^\circ)$	26 $5\operatorname{cosec}^2 30^\circ + 6\cos 0^\circ$	27 $13\sec 60^\circ + \tan 45^\circ$	28 $7\operatorname{cosec}^2 30^\circ$	29 $14\sec 60^\circ + \tan 45^\circ$	30 $6(\operatorname{cosec}^2 30^\circ + \cot 45^\circ)$

- 04- School Reopens after Deepawali Break
 - 04- Shakuntala Devi's Birthday
 - 10- World Science Day
 - 11- National Education Day
 - 13- Nagar Kirtan
 - 14- Children's Day
 - 15- Guru Nanak Jayanti
 - 24- Guru Tegh Bahadur Martyrdom Day
 - 26- Constitution Day
- Periodic Test
18th November- 23rd November



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.*

2024



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01 Multiplicative Identity	02 First prime	03 Sum of first three whole numbers	04 First composite number	05 Sum of first two primes	06 First common multiple of first two primes	07 Largest single digit prime
08 Largest single digit cube	09 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 a leap year	30 Product of first three primes	31 Happy number				

- 02- National Pollution Day
 - 03- International Day of Persons with Disabilities
 - 04- Indian Navy Day
 - 07- School Founder's Day
 - 09- International Anticorruption Day
 - 11- Human Rights Day
 - 14- National Energy Conservation Day
 - 16- Vijay Diwas
 - 21- Odyssey/Annual Sports Meet
 - 22- Martyrdom Day of Chaar Sahibzadas
National Mathematics Day
 - 23- Farmer's Day
 - 25- Christmas Day
- Winter Break
25th December 2024-
1st January 2025



January

2025

Prime factorisation: The process to express the given number as the product of prime numbers.

e.g., $6 = 2 \times 3$. Some prime numbers have unique character e.g., 2 is an even prime.

Twin Primes: Prime numbers that differ by two e.g., 7,5.

Cousin primes: Prime numbers that differ by four e.g., 23,19

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			01 Non prime	02 Even prime	03 Only prime that is successor to a prime	04 2×2
05 Sum of first two primes & Twin prime	06 2×3	07 Largest single digit prime & twin prime	08 $2 \times 2 \times 2$	09 3×3	10 2×5	11 Smallest two digit prime
12 $2 \times 2 \times 3$	13 Prime	14 2×7	15 3×5	16 $2 \times 2 \times 2 \times 2$	17 Prime	18 $2 \times 3 \times 3$
19 Cousin prime	20 $2 \times 2 \times 5$	21 3×7	22 2×11	23 Cousin prime	24 $2 \times 2 \times 2 \times 3$	25 5×5
26 2×13	27 $3 \times 3 \times 3$	28 $2 \times 2 \times 7$	29 Prime	30 $2 \times 3 \times 5$	31 Prime	

- 
- 02- School Reopens after Winter Break
 - 06- Guru Gobind Singh Jayanti
 - 12- National Youth Day
 - 13- Lohri
 - 14- Makar Sankranti
 - 15- Army Day
 - 23- Netaji Subhash Chandra Bose Jayanti
 - 24- National Girl Child Day
 - 26- Republic Day Celebration
 - 30- Martyr's Day
- Periodic Test
20th January- 25th January
- 

February

February is the second month of a year, coming between January and March, and is also the shortest month, with 28 days in a common year, and 29 days in a leap year.

2025

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						01 $(2+0) \times 2/4$
02 $2^\circ \times 4/2$	03 $2^\circ + 4/2$	04 $2^\circ \times 4$	05 $2 + 4 - 2^\circ$	06 $2^\circ \times (2+4)$	07 $2^\circ + (2+4)$	08 $2+0 + 2+4$
09 $2^\circ + (2 \times 4)$	10 $2+0 + (2 \times 4)$	11 $4!/2 - 2^\circ$	12 $4!/2$	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 $(2 \times 0) + 24$	25 $(2)^\circ + 24$	26 $2 + 0 + 24$	27 $2 + 0! + 24$	28 $2 + 0 + 2 + 4!$	

- 
- 02- Basant Panchami
 - 04- Shree Devnarayan Jayanti
 - 19- Chhatrapati Shivaji Jayanti
 - 28- National Science Day
- 



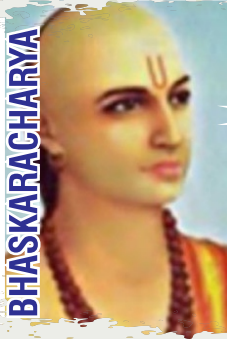
Guru Harkrishan Public School, SGNR

March -2025

Great Mathematicians



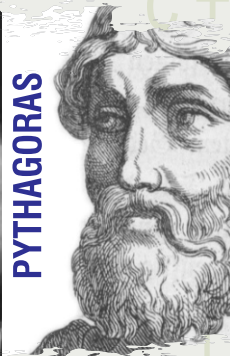
Aryabhata



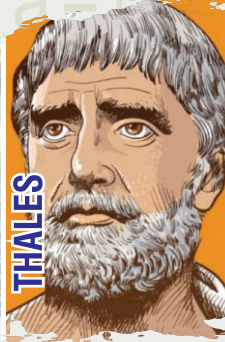
BHASKARACHARYA



SRINIVASA RAMANUJAN



PYTHAGORAS



THALES



EUCLID



BRAHMAGUPTA

“Go down deep enough into anything and you will find mathematics.”

SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT
						01	02	03	04	05	06	07	08
09	10	11	12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30	31					

March

2025

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 is multiplied by the same number, 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.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30 $\sqrt[3]{27000}$	31 $\sqrt{961}$					01 Perfect square & Perfect cube
02 $\sqrt{4}$	03 $\sqrt{9}$	04 Perfect square (2^2)	05 $\sqrt{25}$	06 $\sqrt[3]{216}$	07 $\sqrt{49}$	08 Perfect cube (2^3)
09 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 $\sqrt{841}$

- 08- Women's Day
 - 14- Holika Dahan
 - 15- Holi
 - 23- Maharishi Dayanand Saraswati Jayanti
 - Shaheed Diwas
 - 31- Eid-ul-Fitr
- Annual Examination
10th March- 21st March



Guru Harkrishan Public School, SGNR



Leading with Vision
Man Preet Singh Wig
Principal



The Guiding Light of Maths Wonderland

Learning Maths is FUN

- *The World Where Numbers Come to Life
- *Fun with Formulas
- *Experiential learning
- *Critical thinking

- *Hands-On Learning
- *Inspiring Mathematical Exploration
- *Problem-solving