



DOON PUBLIC ACADEMY

Laxmipur

MATHEMATICS CALENDAR



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D.R. KAPREKAR (1895-1985)

Dr. D.R. Kaprekar was an Indian mathematician known for his work in recreational mathematics. He discovered the Kaprekar's constant, a number which, when used in a certain way, always leads to the number 6174. He also discovered the Kaprekar's routine, a process which, when applied to a number, always leads to the number 1. He was also a pioneer in the field of number theory and algebra.

2025

JANUARY

Importance of the number: 2025 is the New Year. We can make different numbers by using 2,0,2,5 digits.

SUN MON TUE WED THU FRI SAT

HOLIDAYS & IMPORTANT DAYS

1. New Year Day

13. Shrove Tuesday

14. Makar Sankranti

15. Kartika

17. D.R. Kaprekar's Birthday

23. David Hilbert Birthday

25. Lagrange Birthday

31. Republic Day

31. Shrove Tuesday

1

$(-2)+0+(-2)+5$

2

$2+(0 \times 2 \times 5)$

3

$-(2^0 \times 2)+5$

4

$2^0+(-2)+5$

5

$-(2^0)+25$

6

$-(2^0)+2+5$

7

$(2 \times 0)+2+5$

8

2^0+2+5

9

$2+0+2+5$

10

$2^0 \times 2 \times 5$

11

$2^0+(2 \times 5)$

12

$2+0+(2 \times 5)$

13

$2^0-(2+5)$

14

$2^0-2+\sum 5$

15

$(-2)+0+2+\sum 5$

16

$2 \times (0+2+5)$

17

$(2^0+2)+5$

18

$2^0+2+\sum 5$

19

$-(\sum (2+0))+25$

20

$2 \times 0! \times 2 \times 5$

21

$\sum 2+0+\sum 2+\sum 5$

22

$-\sum 2+0+25$

23

$-(2+0)+25$

24

$-(2^0)+25$

25

$2^0 \times 25$

26

2^0+25

27

$2+0+25$

28

$2+0+25$

29

$-(2+0!)+25$

30

$(-2)+0+25$

31

$-(2^0)+25$



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ARYABHATA (476 AD – 550 AD)

ARYABHATA was a renowned Indian mathematician and astronomer. He is best known for his work 'Aryabhatiya', in which he calculated the value of pi (3.1416) and discovered that the Earth rotates on its axis. His contributions to trigonometry, algebra, and astronomy greatly influenced Indian mathematics and astronomy.

2025

FEBRUARY

Percentages are a way to express a portion of a whole as a fraction of 100, making comparisons easier. They are widely used in everyday life, such as in calculating discounts, interest rates, or test scores.

SUN	MON	TUE	WED	THU	FRI	SAT
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HOLIDAYS & IMPORTANT DAYS

7. G.H. Birthday
14. G.H. Birthday
15. Galileo Birthday
19. Copernicus Birthday
25. Maha Shiva Ratri

1

20% of 5

2

25% of 8

3

30% of 10

4

10% of 40

5

5% of 100

6

2% of 300

7

5% of 140

8

4% of 200

9

300% of 3

10

20% of 50

11

50% of 22

12

30% of 40

13

25% of 52

14

70% of 20

15

25% of 60

16

40% of 40

17

20% of 85

18

90% of 20

19

10% of 190

20

5% of 400

21

30% of 70

22

25% of 88

23

20% of 115

24

40% of 60

25

50% of 50

26

13% of 200

27

90% of 30

28

400% of 7



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SRI BHARATHI KRISHNA TEERTHA - 11894 - 19001

He is a Fatherly guru. Maths Vedic Maths was born in 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. NASTA has also worked certain concepts from Vedic Mathematics in artificial intelligence.

2025

MARCH

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

30

XXX

31

XXXI

HOLIDAYS & IMPORTANT DAYS

3. George Cantor Birthday
14. Hall & Einstein Birthday
21. Aryabata Birthday
22. Shikharaj

01. Shikhar E-Daily
08. Jannat Imam
30. Ugadi
31. Ekphulthar (Ramzan)

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



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SAKUNTALA DEVI (1929-2013)

She was an Indian mathematician and writer, renowned for her "Human Computer" to the Guinness World Records. She demonstrated her skills memorably after supporting Gandhi's $2187 \times 13 = 28431$ in 1945. She is remembered for reciting the 55th root of a 1000 digit number in just 10 seconds. She was a pioneer in the field of mathematics and the science of numbers.

2025

APRIL

Every number is unique because it represents a distinct value or position in a numerical system. The individuality of each number is fundamental to mathematics, enabling accurate calculations and meaningful comparisons.

SUN	MON	TUE	WED	THU	FRI	SAT
		1 Difference of first two prime numbers	2 Number of Perfect numbers between 1 to 100	3 Only prime that successor to a prime	4 Single digit prime numbers	5 Sum of squares of first two natural numbers
6 Product of first two prime numbers	7 Number of days in a week	8 Pairs of twin primes below 100	9 First odd composite	10 Smallest two digit composite number	11 Only two digit prime formed by same digit	12 Sum of first three positive even numbers
13 Formed by first two odd numbers	14 Sum of squares of first three natural numbers	15 Product of first two odd primes	16 Square of first composite number	17 Sum of first four prime numbers	18 Sum of first three composite numbers	19 Formed by smallest and largest single digit numbers
20 Sum of first four positive even numbers	21 Number of two digit prime numbers	22 Product of first single digit and two digit prime numbers	23 Formed by first two prime numbers	24 Number of odd prime numbers between 1 to 100	25 Number of prime numbers between 1 to 100	26 Number of composite numbers below 40
27 Sum of all single digit composite numbers	28 Perfect number	29 Tenth prime number	30 Sum of first four square numbers	HOLIDAYS & IMPORTANT DAYS 5. Babu Jagjivan Jayanti 6. Sri Ram Navami 14. Dr. B.R. Ambedkar's birthday 15. Euler Birthday 18. Good Friday 21. Sakuntala Devi Jayanthi 25. Emma Jayanti & C.F. Gauss Birthday		



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BHASKARACHARYA II: 1114 – 1181

HE WAS A PROMINENT INDIAN MATHS EXPERT IN THE 12TH CENTURY. HE IS KNOWN FOR HIS WORKS LIKE 'LIKHITA' AND 'SUNYASIRI'. HE ALSO INTRODUCED THE CONCEPT OF ZERO AND THE NEGATIVE NUMBERS. HE ALSO INTRODUCED THE CONCEPT OF INFINITENESS AND THE CONCEPT OF THE INFINITE. HE ALSO INTRODUCED THE CONCEPT OF THE INFINITE. HE ALSO INTRODUCED THE CONCEPT OF THE INFINITE.

2025

MAY

SUN	MON	TUE	WED	THU	FRI	SAT
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HOLIDAYS & IMPORTANT DAYS

On ~~Monday~~ ~~Monday~~

1

१

2

२

3

३

4

४

5

५

6

६

7

७

8

८

9

९

10

१०

11

११

12

१२

13

१३

14

१४

15

१५

16

१६

17

१७

18

१८

19

१९

20

२०

21

२१

22

२२

23

२३

24

२४

25

२५

26

२६

27

२७

28

२८

29

२९

30

३०

31

३१



PS MAILED-ENCLOSURE TIME 1-14-71

[illegible]

2025

JUNE

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 Neither Prime nor Composite. Factors: 1	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	HOLIDAYS & IMPORTANT DAYS 1 Bhaija 14 Neelakanta Sanyasi Birth day 19 Pascal Birth day				
					27 Krishna Vamsi A.D.Morgan Birth day. 29 P.C. Mahabadi Birth day	



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CS SENHABRIHARI - 2025

Dr. Senhabrihar Das is a prominent figure in the world of mathematics. He has spent his entire life working with numbers, primarily in the field of algebra. His research has led to several key concepts in the field that have influenced global research in mathematics. As the co-director of the Doon Public Academy (DPA), he is also a dedicated educator, committed to the advancement of mathematical education and research in India.

2025

JULY

Rational numbers are numbers that can be expressed as $\frac{a}{b}$ where a, b are integers but $b \neq 0$. Rational numbers are part of the real number system and can be positive, negative, or zero.

SUN MON TUE WED THU FRI SAT

HOLIDAYS & IMPORTANT DAYS

1. Leibnitz Birth day

2. Vaisakhi

3. Monsoon

1

$$\frac{1}{3} \div \frac{4}{5}$$

2

$$\frac{5}{2} \div \frac{1}{2}$$

3

$$\frac{11}{4} \times \frac{12}{11}$$

4

$$\frac{5}{8} \div \frac{5}{32}$$

5

$$\frac{25}{6} \div \frac{5}{6}$$

6

$$\frac{27}{4} \div \frac{3}{4}$$

7

$$\frac{21}{2} \times \frac{2}{3}$$

8

$$\frac{16}{3} \div \frac{2}{3}$$

9

$$9\frac{1}{4} + (-\frac{1}{4})$$

10

$$\frac{28}{3} - (-\frac{2}{3})$$

11

$$16\frac{1}{2} \times \frac{2}{3}$$

12

$$\frac{9}{2} \div \frac{3}{8}$$

13

$$9\frac{1}{2} \div 3\frac{1}{2}$$

14

$$\frac{91}{5} \div 4\frac{1}{5}$$

15

$$3\frac{1}{3} \times 4\frac{1}{2}$$

16

$$2\frac{2}{3} \div \frac{1}{6}$$

17

$$8\frac{1}{3} + 8\frac{2}{3}$$

18

$$\frac{96}{5} \div 1\frac{1}{5}$$

19

$$-\frac{37}{4} \times -\frac{4}{3}$$

20

$$\frac{4}{5} \div \frac{1}{25}$$

21

$$16\frac{1}{2} \div 4\frac{1}{2}$$

22

$$25\frac{1}{3} \div 3\frac{1}{3}$$

23

$$-4\frac{3}{5} \times -5$$

24

$$\frac{16}{3} \div \frac{2}{9}$$

25

$$17+4 \times 2$$

26

$$28-1 \times 2$$

27

$$21+12 \div 2$$

28

$$34-(5+1)$$

29

$$35-3 \times 2$$

30

$$20+5 \times 2$$

31

$$31 \times 5 \div 5$$

HOLIDAYS & IMPORTANT DAYS

17. Moharam

22. Pi Approximation Day

31. Gabriel Cramer Birth day



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BRHMSHASTRI (1984 AD - 1884 AD)

BRHMSHASTRI was a distinguished Indian mathematician and astronomer. He is known for his contributions to the decimal system and his introduction of the decimal point. He was a pioneer in the use of the decimal system for modern mathematics. He made significant advancements in astronomy, including the discovery of the first of the four quadrants. He was a member of the British Royal Society and was elected a Fellow of the Royal Society. He was also a member of the Indian Academy of Sciences and the Indian Mathematical Society. He was a pioneer in the use of the decimal system for modern mathematics. He made significant advancements in astronomy, including the discovery of the first of the four quadrants. He was a member of the British Royal Society and was elected a Fellow of the Royal Society. He was also a member of the Indian Academy of Sciences and the Indian Mathematical Society.

2025

AUGUST

Decimals are numerical representations based on the base-10 system, using a decimal point to separate whole numbers from fractional parts. They are commonly used to express values more precisely, such as measurements, currency, etc.

SUN	MON	TUE	WED	THU	FRI	SAT
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31

$$3.1 \times 2 \times 5$$

HOLIDAYS & IMPORTANT DAYS

4. John Venn Birth day

8. Varalakshmi vratam

15. Independence day

16. Good new year day

10. Sri Krishna Jayanti

20. Fermat Birth day

27. Virayaka chavithi

1

$$0.8 + 0.2$$

2

$$20.25 - 18.25$$

3

$$0.03 \times 100$$

4

$$2.4 \div 0.6$$

5

$$3.71 + 1.19$$

6

$$58.581 - 52.581$$

7

$$0.007 \times 1000$$

8

$$0.16 \div 0.02$$

9

$$1.15 + 3.4 + 4.45$$

10

$$10.01 - 0.01$$

11

$$110 \times 0.1$$

12

$$1.44 \div 0.12$$

13

$$6.16 + 3.24 + 2.2 + 1.4$$

14

$$20.25 - 0.2 + 6.05$$

15

$$0.03 \times 50 \times 10$$

16

$$3.2 \div 0.2$$

17

$$10.01 + 5.96 + 1.03$$

18

$$22.1 - 3.08 - 1.02$$

19

$$1.9 \times 10$$

20

$$0.2 \div 0.01$$

21

$$3.02 + 12.1 + 5.88$$

22

$$38.5 - 18.65 + 2.15$$

23

$$0.23 \times 25 \times 4$$

24

$$0.72 \div 0.03$$

25

$$2.5 + 12.5 + 0.25 + 9.75$$

26

$$62 - 29.95 - 6.05$$

27

$$0.3 \times 0.3 \times 0.3 \times 1000$$

28

$$1.4 \div 0.05$$

29

$$20.25 + 5.05 + 3.7$$

30

$$202.5 - 92.3 - 80.2$$



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C.R. RAO 10 SEP 1920 - 11 AUG 2021

Chandrasekhara Venkata RAO, commonly known as C.V. RAO, was an Indian statistician, mathematician, physicist, and astronomer. He was a pioneer in the field of statistics, with his work on statistical inference, particularly on the theory of unbiased estimation, being highly influential. He also made significant contributions to the theory of group representations and the theory of algebraic curves. RAO was a member of the Indian Academy of Sciences, the Royal Society, and the National Academy of Sciences. He was also a member of the International Statistical Institute and the International Union of Pure and Applied Chemistry. RAO was a highly respected and influential figure in the field of statistics and mathematics.

2025

SEPTEMBER

Central tendency values, such as mean, median, and mode, are measures that summarize a data by identifying a central point. The mean is the average of all data points, the median is the middle value when data is ordered, and the mode is the most frequently occurring value. These measures help describe and compare datasets. The range is a measure of variability that represents the difference between the highest and lowest values in a data.

SUN	MON	TUE	WED	THU	FRI	SAT
	1 mean of the data 3, -1, 0, 2, 1	2 median of the data 0, 1, 2, 3, 4	3 mode of the data 5, 7, 3, 4, 3, 8	4 range of the data 1, 2, 3, 4, 5	5 mean of the data 8, 3, 5, 7, 1, 8	6 median of the data 8, -4, 5, 7, 3, 9
7 mode of the data 7, 4, 7, 5, 7, 8, 6, 5	8 range of the data 12, 6, 4, 7, 9, 11	9 mean of the data 10, 18, 12, 5, 2, 7	10 median of the data 15, 9, 18, 6, 10	11 mode of the data 14, 11, 13, 11, 19, 8	12 range of the data 25, 21, 13, 16, 17, 22	13 mean of the data 15, 5, 20, 10, 15
14 median of 35, 8, 10, 14, 20	15 mode of -4, 6, 15, -6, 15, 11	16 range of 20, 8, 4, 9, 18, 15	17 mean of 32, 18, 10, 13, 12	18 median of 20, 16, 24, 28, 15, 10	19 mode of 23, 19, 21, 19, 21, 19, 25	20 range of 14, 30, 20, 15, 10, 25
21 mean of 32.5, 17.5, 22.5, 11.5	22 median of 11.5, 32.8, 64.5, 22.0, 9.6	23 mode of 16, (-22), 23, 29, 23, 22	24 range of 9, 16, 30, 27, 15, 6	25 mean of 8.8, 24.6, 12.2, 54.4	26 median of 10.5, 19.5, 28, 26, 32.5	27 mode of 27, 28, 29, 38, 27, 18
28 range of 63, 60, 47, 37, 54, 63, 41	29 mean of 20, 32, 34, 45, 26, 17	30 median of 80, 10, 50, 30, 60, 10, 20	HOLIDAYS & IMPORTANT DAYS 3. J.J. Sylvester Birth day 5. Makar-sankranti Teachers Day 7. J.N. Kapur Birth day			
					10. C.R. Rao Birth day	21. Mahalaya amavasya 30. Dussehra



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HARISH - CHANDRA MEHROTRA (1913 - 1983)

Indian Scientist Mathematician, Physicist and contributor to Atomic Research. He is famous for his theories on Atomic Structure and Quantum Mechanics. He was awarded Padma Bhushan in 1955.

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2025

OCTOBER

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

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

SUN MON TUE WED THU FRI SAT

HOLIDAYS & IMPORTANT DAYS

2. Mahatma Gandhiji Jayanti &

Vijaya Dashami

11. The children's day

11. Hareesh Chandra Birth day

20. Deepavali

1

$(2025)^0$

2

$2^3 \div 2^2$

3

$3^5 \times 9^{-2}$

4

$16^3 \div 4^5$

5

$\frac{1}{5} \times 5^2$

6

$3^2 \times 2 \times 3^{-1}$

7

$7^5 \times \frac{1}{7^4}$

8

$2^2 \times 2$

9

$3^4 \div 3^2$

10

$5^2 \times 2 \times 5^{-1}$

11

$5^2 - 14$

12

$3^2 \times 3^{-1} \times 2^3 \times 2^{-1}$

13

$7^2 - 6^2$

14

$7 \times 2^3 \times 2^{-2}$

15

60×2^{-2}

16

$(2^2)^2$

17

$17^{-3} \times 17^4$

18

$3^{-1} \times 3^3 \times 2$

19

$19^{-5} \times 19^6$

20

$2^2 \times 5^2 \times 5^{-1}$

21

$7^2 \times 3 \times 7^{-1}$

22

$2^{10} \times 2^{-8} \times 11$

23

$23^3 \times 23^{-2}$

24

$2^3 \times 3^3 \times 3^{-2}$

25

$5^4 \div 5^2$

26

$2^5 \times 13 \times 2^{-4}$

27

$3^{-4} \times 3^7$

28

$2^2 \times 7^6 \times 7^{-5}$

29

$29^2 \times \frac{1}{29}$

30

$2 \times 3^5 \times 5 \times 3^{-4}$

31

$30 + 30^0$



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Number series are sequences of numbers arranged in a specific logical pattern, used to assess mental ability and reasoning skills. In such tests, individuals identify the rule governing the sequence and predict the next number or fill in the missing ones.

SUN	MON	TUE	WED	THU	FRI	SAT
30 0, 2, 6, 12, 20, —, 42,	HOLIDAYS & IMPORTANT DAYS 2. George Elliot Birth day 4. Sakunthala Devi Birth day 5. Kartik Purnima (Kartik Purnima) 22. Lalit Mohan Bhatnagar Birth day 23. Fibonacci Day					1 18, 13, 10, 7, 4, —,
2 5, 6, 4, 5, 3, 4, —, 3, 1, 2,	3 0, 1, 1, 2, —, 5, 8, 13, 21	4 100, 64, 36, 16, —,	5 61, 41, 25, 13, —, 1,	6 0, 1, 3, —, 10, 15, 21	7 1, 3, 5, —, 9, 11, 13,	8 1, 2, 4, —, 16, 32,
9 1, 4, —, 16, 25, 36,	10 7, 10, 8, 11, 9, 12, —,	11 1, 2, 4, 7, —, 16, 22,	12 2, 4, 6, 8, 10, —, 14,	13 2, 3, 5, 7, 11, —, 17,	14 2, 5, 9, —, 20, 27, 35,	15 3, 7, —, 31, 63, 127,
16 100, 81, 64, 49, 36, 25, —,	17 2, 5, 10, —, 26, 37,	18 2, 6, 10, 14, —, 22,	19 3, 4, 7, 12, —, 28, 39,	20 2, 6, 12, —, 30, 42,	21 8, 9, 15, —, 33, 39,	22 7, 12, 17, —, 27, 32,
23 2, 5, 11, 17, —, 31, 41,	24 0, 3, 8, 15, —, 35, 48,	25 8, 7, 11, 17, —, 36,	26 3, 5, 10, 12, 24, —, 52, 54	27 1, 8, —, 64, 125, 216,	28 4, 6, 12, 14, —, 30, 60, 62,	29 11, 13, 17, 19, 23, 25, —,



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SRINIVASA RAMANUJAN (1887-1920)

He was a brilliant Indian mathematician who made extraordinary contributions to number theory, analysis, and other fields. His collaboration with G.H. Hardy at Cambridge University led to the discovery of many objects, whilst establishing his status. Ramanujan is now remembered as the discoverer of the extraordinary theory of partition function, and his work was a major step in the development of modern number theory. He was a self-taught genius who made significant contributions to mathematics without formal training.

2025

DECEMBER

Trigonometry is a branch of mathematics that studies the relationships between the angles and sides of triangles. It is based on trigonometric functions such as sine, cosine, and tangent, which are essential for solving problems involving right-angled triangles.

SUN MON TUE WED THU FRI SAT

1

$$\sin 90^\circ$$

2

$$\tan 45^\circ + \cot 45^\circ$$

3

$$\cos 0^\circ + 2\sin 90^\circ$$

4

$$\operatorname{cosec} 30^\circ + \sec 60^\circ$$

5

$$2\operatorname{cosec} 30^\circ + \cot 45^\circ$$

6

$$2(\sec 0^\circ + \operatorname{cosec} 30^\circ)$$

7

$$\operatorname{cosec} 90^\circ + 3\operatorname{cosec} 30^\circ$$

8

$$\operatorname{cosec} 230^\circ \times \sec 60^\circ$$

9

$$\cot^2 30^\circ \times \tan^2 60^\circ$$

10

$$(\tan^2 60^\circ)^2 + \cot 45^\circ$$

11

$$4(\cot^2 30^\circ) - \cot 45^\circ$$

12

$$3(\sec^2 60^\circ)$$

13

$$3(\sec^2 60^\circ) + \cos 0^\circ$$

14

$$7(\sec^2 45^\circ)$$

15

$$7\operatorname{cosec} 30^\circ + \cot 45^\circ$$

16

$$(\sec^2 60^\circ) \times (\operatorname{cosec}^2 30^\circ)$$

17

$$4(\sec^2 60^\circ) + \cot 45^\circ$$

18

$$\sec 60^\circ (3\tan^2 60^\circ)$$

19

$$\cot^2 30^\circ + 4\sec^2 60^\circ$$

20

$$4(\tan^2 60^\circ + \sec 60^\circ)$$

21

$$7(\sin 90^\circ + \sec 60^\circ)$$

22

$$11\operatorname{cosec}^2 45^\circ$$

23

$$8\tan^2 60^\circ - \cot 45^\circ$$

24

$$8\cot^2 30^\circ$$

25

$$5(2\sec^2 60^\circ + \tan 45^\circ)$$

26

$$3\operatorname{cosec}^3 30^\circ + \sec 60^\circ$$

27

$$13\sec^2 45^\circ + \cos 0^\circ$$

28

$$8\tan^2 60^\circ + \operatorname{cosec}^2 30^\circ$$

29

$$7\sec^2 60^\circ + \sin 90^\circ$$

30

$$10(\sec 60^\circ + \cos 0^\circ)$$

31

$$10(\sec 60^\circ + \cos 0^\circ) + \tan 45^\circ$$

HOLIDAYS & IMPORTANT DAYS

22. Srinivasa Ramanujan Birth day

24. Christmas Eve

25. Christmas

Newton Birth day

26. Boxing Day

Charles Babbage Birth day

27. Bernoulli Jakob Birth day