

The number system, exponents, radicals, functions, linear equations, transformations, geometry, statistics &amp; more!

## THE NUMBER SYSTEM

## Set of Rational Numbers

Rational numbers: Any number that can be written as a ratio of two integers; rational numbers include:

- Fractions:  $\frac{1}{2}$ ,  $1\frac{3}{4}$ ,  $-\frac{7}{8}$ ,  $-33\frac{1}{3}$ ,  $-\frac{12}{17}$
- Decimals:
  - Terminating decimals: 3.5, 0.6, -7.3
  - Repeating decimals:  $0.\overline{3}$ ,  $1.\overline{313}$ ,  $-2.\overline{78}$
- Natural numbers: All the counting numbers  
1, 2, 3, 4, 5, ...
- Whole numbers: All the counting numbers plus 0  
0, 1, 2, 3, 4, ...
- Integers: All whole numbers and their opposites  
..., -3, -2, -1, 0, 1, 2, 3, ...

## Tip!

Numbers that are not rational are called irrational.

## Set of Irrational Numbers

Irrational numbers: Nonterminating and nonrepeating decimals, such as  $\pi$ ; irrational numbers cannot be written as the ratio of two integers. NOTE: An ellipsis (...) indicates that the number does not terminate.

$$\sqrt{3} = 1.7320508...$$

$$56.7845375...$$

All non-perfect-square numbers have irrational square roots:  
 $\sqrt{5} = 2.23606...$ 

## Common Irrational Numbers



$\pi = 3.1415926...$

$e = 2.718281...$

$\phi = 1.618033...$

$\sqrt{2} = 1.4142135...$

## Tip!

Real numbers = Set of rational numbers + Set of irrational numbers

## Converting Fractions &amp; Decimals

Every number has a decimal expansion.

EX: Write .15 as a fraction.

$$.15 = \frac{15}{100} = \frac{3}{20}$$

Write  $\frac{11}{20}$  as a decimal.

$$11 \div 20 = .55$$

Write  $-\frac{3}{25}$  as a decimal.

$$-3 \div 25 = -.12$$

## Tip!

To convert a decimal to a fraction, the number after the decimal point is the numerator, and the place value of the decimal's last digit is the denominator.

## EXPONENTS &amp; POWERS

Exponent: The number of times the base is multiplied by itself; the number of times the base is a factor.

EX:  $4^3 = 4 \times 4 \times 4 = 4 \times 4 \times 4$

$$\frac{1}{4^3} = \frac{1}{4 \times 4 \times 4} = \frac{1}{64}$$

Degree of exponent:  $x$  and  $x^1$  are the same; that is, they are both first degree;  $x^2$  = second degree, etc.

Zero exponents: Any non-zero base to the 0 power always equals 1.

$$a^0 = 1, \text{ if } a \neq 0$$

EX:  $6^0 = 1$

$$a^x = 1, \text{ when } a \neq 0$$

$$(3xy)^0 = 1, \text{ when } x \neq 0 \text{ and } y \neq 0$$

Negative exponents: Any base with a negative exponent; indicates a fraction value.

EX:  $4^{-2} = \frac{1}{4^2}$      $x^{-3} = \frac{1}{x^3}$      $(x+y)^{-4} = \frac{1}{(x+y)^4}$

Adding and subtracting with exponents: Add or subtract coefficients of like terms with the same base and exponent.

EX:  $2x^2 + 5x^2 = 7x^2$

Multiplying with exponents: Add exponents if the bases are the same; simplify any coefficients.

$$a^m \times a^n = a^{m+n}$$

EX:  $(2a^3)(6a^2) = 12a^5$

$$(c^2)(c^3) = c^5$$

$$\frac{3^3}{4} \times \frac{3^2}{4} = \frac{3^5}{4}$$

Power of a power: Multiply the exponents.  
 $(a^m)^n = a^{m \times n}$ 

EX:  $(x^2)^3 = x^6$

$$(y^3)^2 = y^6$$

$$(x^2y^3)^2 = x^4y^6$$

$$(3x^2)^3 = 9x^6$$

Dividing with exponents: Subtract exponents that have the same base.  
 $a^m \div a^n = a^{m-n}$ 

EX:

$$\frac{12a^4}{3a} = 4a^3$$

$$\frac{-40a^4b^5}{-7a^2b^4} = 7a^2b^2$$

## Tip!

Power of a product:

$$(ab)^n = a^n b^n$$

Power of a quotient:

$$\frac{a^n}{b^n} = \frac{a^n}{b^n}, \text{ if } b \neq 0$$

## Scientific Notation &amp; Powers of 10

- Used to represent very large and very small numbers.
- Form of writing numbers using powers of 10.

EX:  $1,000,000,000 = 10^9$

$$100,000 = 10^5$$

$$10,000 = 10^4$$

$$1,000 = 10^3$$

## Scientific Notation for Large Numbers

For very large numbers, the power is positive.

EX:  $2,890,000,000 = 2.890,000,000 \times 10^9$

- Move the decimal point to the left to get 2.89 (a number between 1 and 10).
- Count the number of places the decimal point moved.
- Use the power of 10 to represent the number:  $2.89 \times 10^9$ .

## Scientific Notation for Small Numbers

For very small numbers, the power is negative.

EX:  $0.00000073$

- Move the decimal point to the right to get 7.3 (a number between 1 and 10).
- Count the number of places the decimal point moved.
- Use the power of 10 to represent the number:  $7.3 \times 10^{-7}$ .

## Operations with Scientific Notation

Use properties of exponents to solve problems involving scientific notation.

EX:

$$(2.5 \times 10^3)(8.7 \times 10^{-2}) = 21.75 \times 10^{-4} = 2.175 \times 10^{-3}$$

$$2.4 \div (5.2 \times 10^{-5}) = 12.48 \times 10^{-5} = 1.248 \times 10^{-4}$$

$$\frac{8.22 \times 10^5}{6.3 \times 10^3} = \frac{8.22}{6.3} \times \frac{10^5}{10^3} = 1.30 \times 10^2$$

# Guide For 8th Class Maths

**Disha Experts**



## Guide For 8th Class Maths:

### **MATHS RANK SCORER CBSE MATHEMATICS A Complete Guide For CBSE Class 10th Mathematics**

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same thing happened about the multiplication of negative numbers Our teacher presented them as rules and I refused to accept them at face value One year later my cousin s grandfather started living with us and he had a great interest in teaching Moreover his concepts in mathematics were extremely clear and he could answer all my crazy questions This retriggered my interest in mathematics The whole journey was so joyful that I wish everyone get a grandfather like him who is at home to help with fundamental questions in studies When I started thinking about developing books as per the curriculum the next question was which board to follow After a bit of research I got to know that CBSE is a most popular board in India and therefore I decided to develop Vedic Math books for the CBSE curriculum Finally I had a choice of developing books from class I and I decided to develop the first book for class VIII Class VIII is the foundation for board exams and therefore I felt this is the right time to start strengthening our knowledge skills and abilities The book is designed in such a way that all required methods from Vedic math are covered here and the student need not refer to any other book to learn the basics Secondly numbers data are represented in pictorial format or charts wherever appropriate This certainly simplifies the learning I have explained principles wherever relevant This shall help the pupil to understand them further and apply them confidently

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