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Math 8th Grade
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The number system, exponents, radicals, functions, linear equations, transformations, geometry, statistics & more!

THE NUMBER SYSTEM

Set of Rational Numbers

Rational number: 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:** $0.\overline{7}$, $1.\overline{313}$, $-2.\overline{78}$

- **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 π; 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 & 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 & POWERS

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

EX: $4^5 = 4 \times 4 \times 4 \times 4 \times 4$

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

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

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

$a^0 = 1$, if $a \neq 0$

EX: $6^0 = 1$

$w^0 = 1$, when $w \neq 0$

$(3x^2y)^0 = 1$, when $x \neq 0$ and $y \neq 0$

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

EX:

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

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

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

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

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

EX: $(2a^2)(6a^4) = 12a^6$

$(c^2)(c^2) = c^4$

$\left(\frac{3}{4}\right)^5 \left(\frac{3}{4}\right)^2 = \left(\frac{3}{4}\right)^7$

Power of a power: Multiply the exponents

$(a^m)^n = a^{mn}$

EX: $(x^2)^2 = x^4$

$(y^7)^y = y^{7y}$

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

$(3a^2)^2 = 9a^4$

Dividing with exponents: Subtract exponents that have the same base

$a^m \div a^n = a^{m-n}$

EX:

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

$\frac{-49a^3b^6}{-7a^2b^4} = 7a^2b^2$

Tip! Power of a product: $(ab)^n = a^n b^n$
Power of a quotient:
$\left(\frac{a}{b}\right)^n = \frac{a^n}{b^n}$, if $b \neq 0$

Scientific Notation & 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: $2,890,000,000 = 2,890,000,000.0$

- 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: 2.89×10^9

Scientific Notation for Small Numbers

For very small numbers, the power is negative

EX: 0.0000073

- 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: 7.3×10^{-6}

Operations with Scientific Notation

Use properties of exponents to solve problems involving scientific notation

EX:

$(2.5 \times 10^3)(8.7 \times 10^{-7}) = 21.75 \times 10^{-4} = 2.175 \times 10^{-3}$

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

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

[Guide For 8th Class Maths](#)

Hari Mohan Krishnatrey

Guide For 8th Class Maths:

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