

Math

Common Core State Standards

8th Grade

The number system, exponents, radicals, functions, linear equations, transformations, geometry, statistics & 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 π ; irrational numbers cannot be written as the ratio of two integers; NOTE: An ellipsis (...) indicates that the number does not terminate

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

$$56.7843375...$$

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: $4^4 = 4 \times 4 \times 4 \times 4 = 4$

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

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

EX: $6^0 = 1$

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

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

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

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

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: $(2x^3)(3x^4) = 12x^7$
 $(x^2)(x^3) = x^5$
 $\left(\frac{3}{4}\right)^3 \left(\frac{3}{4}\right)^2 = \left(\frac{3}{4}\right)^5$

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

EX: $(x^2)^3 = x^6$
 $(y^3)^2 = y^6$
 $(x^2y^3)^2 = x^4y^6$
 $(3a^2)^3 = 9a^6$

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

EX: $\frac{12a^4}{3a} = 4a^3$
 $\frac{-49a^5b^6}{-7a^2b^4} = 7a^3b^2$

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

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

- 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: 2.89×10^9

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: 7.3×10^{-7}

Operations with Scientific Notation

Use properties of exponents to solve problems involving scientific notation

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

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

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

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R Sanford



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