

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 number: The ratio of two integers; rational numbers include:

- **Fractions:** $\frac{1}{2}$, $1\frac{3}{4}$, $-\frac{7}{8}$, $-3\frac{1}{3}$, $-\frac{12}{17}$
- **Decimals:**
 - Terminating decimals: 3.3, 0.6, -7.3
 - Repeating decimals: $0.\overline{3}$, $1.\overline{513}$, $-2.\overline{58}$
- **Integers:** All whole numbers and their opposites
... -3, -2, -1, 0, 1, 2, 3, ...
- **Whole numbers:** All the counting numbers plus 0
0, 1, 2, 3, 4, ...
- **Natural numbers:** All the counting numbers
1, 2, 3, 4, 5, ...

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

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

$$56.7840375...$$

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

Decimal Expansion

Every number has a decimal expansion

EX: Write .15 as a fraction.

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

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

$$11 \div 20 = .55$$

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

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

Tip!

To convert a decimal to a fraction, multiply the decimal by a power of 10 to get a whole number, divide that result by the same power of 10, and simplify.

EXPONENTS & POWERS

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

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

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

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

Zero exponents: Any base to the 0 power, always = 1

EX: $4^0 = 1$

$$a^0 = 1$$

$$(3x^2y^3)^0 = 1$$

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 like terms with the same base and exponent

EX: $2a^2 + 3a^2 = 5a^2$

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

EX: $(2a^2)(3a^2) = 12a^4$

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

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

Power of a power: If the bases are the same, multiply the exponents

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

$$(x^2)^4 = x^8$$

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

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

Dividing with exponents: Subtract exponents that have the same base

EX:

$$\frac{12a^4}{3a^2} = 4a^2$$

$$\frac{-8a^4b^5}{-2a^2b^3} = 4a^2b^2$$

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

Properties of Powers

- **Product of powers:** $a^m \cdot a^n = a^{m+n}$
- **Quotient of powers:** $a^m \div a^n = a^{m-n}$
- **Power of a power:** $(a^m)^n = a^{m \cdot n}$
- **Power of zero:** $a^0 = 1$, if $a \neq 0$
- **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 & the Powers of 10

- Used to represent very large and very small numbers
- Forms 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

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

- 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

NOTE: For very large numbers, the power is positive

Scientific Notation for Small Numbers

$$0.0000073$$

- 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}

NOTE: For very small numbers, the power is negative

Operations with Scientific Notation

Use properties of exponents to solve problems involving scientific notation

EX:

$$(2.5 \times 10^3)(3.7 \times 10^{-5}) = 21.75 \times 10^{-2} = 2.175 \times 10^{-1}$$

$$2.4 \div (5.2 \times 10^{-6}) = 2.46 \times 10^{-7} = 1.248 \times 10^{-6}$$

$$\frac{8.22 \times 10^5}{6.3 \times 10^7} = \frac{8.22}{6.3} \times \frac{10^5}{10^7} = 1.30 \times 10^{-2}$$

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