

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:** $\frac{1}{2}$, $1\frac{3}{4}$, $-\frac{7}{8}$, $-3\frac{1}{5}$, $-\frac{12}{17}$
- **Decimals:**
 - Terminating decimals: 3.5, 0.6, -7.3
 - Repeating decimals: $0.\overline{3}$, $1.\overline{33}$, $-2.\overline{78}$
- **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.

$$\sqrt{3} = 1.7320508, \dots$$

$$56.7845375, \dots$$

All non-perfect-square numbers have irrational square roots:

$$\sqrt{5} = 2.23606, \dots$$

Common Irrational Numbers



$$\pi = 3.1415926, \dots$$

$$e = 2.718281, \dots$$

$$\phi = 1.618033, \dots$$

$$\sqrt{5} = 2.2360679, \dots$$

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 is last digit is the denominator.

EXPONENTS & POWERS

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

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

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

Degree of exponents: x and y 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: $4^0 = 1$

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

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

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

EX:

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

Adding and subtracting with exponents:

Add or subtract coefficients of like terms with the same base and exponent.

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

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

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

EX: $(2x)(5x^2) = 12x^3$

$$4x^2(3x^3) = x^5$$

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

Power of a power: Multiply the exponents.

$$(a^x)^y = a^{xy}$$

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

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

$$(3xy^2)^3 = 27x^3y^6$$

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

Dividing with exponents: Subtract exponents that have the same base.

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

EX:

$$\frac{22a^8}{5a^3} = 4a^5$$

$$\frac{-48a^4b^6}{7a^2b^4} = 7a^2b^2$$

Tip!

Power of a product:

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

Power of a quotient:

$$\left(\frac{a}{b}\right)^n = \frac{a^n}{b^n}, \text{ if } b \neq 0$$

Scientific Notation & Powers of 10

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

EX: $1,000,000,000 = 10^9$
 $300,000 = 10^5$
 $30,000 = 10^4$
 $1,000 = 10^3$

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: 0.0000073

- 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

The properties of exponents to solve problems involving scientific notation.

EX:

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

$$2.4 \div (5.2 \times 10^{-3}) = 12.48 \times 10^{-3} = 1.248 \times 10^{-2}$$

$$\frac{8.22 \times 10^4}{6.3 \times 10^{-3}} = \frac{8.22}{6.3} \times \frac{10^4}{10^{-3}} = 1.30 \times 10^7$$

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