

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: $4^5 = 4 \cdot 4 \cdot 4 \cdot 4 \cdot 4$

$$\frac{1}{4^5} = \frac{1}{64}$$

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:

$$4^{-5} = \frac{1}{4^5} \quad x^{-3} = \frac{1}{x^3} \quad (x+y)^{-4} = \frac{1}{(x+y)^4}$$

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:

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

$$\frac{-8a^4b^6}{-2a^2b^3} = 4a^2b^3$$

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:

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

$$2.4 \div (5.2 \times 10^{-6}) = 12.48 \times 10^{-7} = 1.248 \times 10^{-6}$$

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

Maths 8th Grade Study Guide

RS Peters



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Review Notes and Study Guide to Hardy's Tess of the D'Urbervilles Thomas Hardy, Robert Ackerman, 1964

Research in Education, 1973

Science and Education for National Defense

United States. Congress. Senate. Committee on Labor and Public Welfare,1958 **8th Grade Math** LearningExpress
(Organization),2009 Express Review Guides Grammar covers all the key topics from usage to punctuations to tricky words
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