The Common Core

State Standards



The number system, exponents, radicals, functions, linear expedient, transformations, governory, statistics & more

THE NUMBER SYSTEM

Set of Rational Numbers

Rational number: The ratio of two integers; rational members

- Fractione: $\frac{1}{2}$, $1\frac{3}{2}$, $-\frac{7}{2}$, $-33\frac{1}{2}$, $-\frac{12}{22}$
- * Decimales
 - Treminating decimals: 3.5, 0.6, -7.5
 - Repeating decimals; 0.7, 1.313, -2.78
- Integers: All whole numbers and their apposites. -X -2, -1, 0, 1, 2, 3, ...
- Whole numbers: All the counting numbers plus 0. 6, 1, 2, 3, 4, ...
- Natural numbers: All the counting numbers 1, 2, 3, 4, 5, ...



TID: Numbers that are not recional we called

Set of Irrational Numbers

Breatland numbers: Nontorminating and tomospepting decimals, such as at irrational numbers gasened be written as the ratio of two integers; NOTE: An ellipsis (...) indicates that the number does not terminate

All non-perfect square numbers have imational square tools: JS - 2 2 3 5 6 6 6

Common Irrational Numbers



At 14 S. S. & All SWICKS.

e = 2.704294 40 - 1 X 1 10 (5)

J2 - 1.4140106...



Tip: Real members - Set of natural numbers + Not of tetational manifern

Decimal Expansion

Every member has a decimal expansion EX: Write .15 as a finction.

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

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

$$11 - 20 = .55$$

Wrote $\frac{-3}{12}$ as a docimul.

Tip! Teament as disposited by as dissertions.

multiple the doctoral by a provider of DO to get a whole mundled, divide the result by the same person of 1th, and strong-fieldy:

EXPONENTS & FOWERS

Expensent: The number of times the base is multiplied by itself, the number of times the base is a factor

Degree of exponents a and if are the name: that is, they are both first degree; if -second degree, etc.

Zero exponents: Any base to the 0 person; Abraga - I

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

EX:

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

Adding and safetracting with exponents: Add or subtract like torses with the same hone and exponent

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

Power of a power! If the bases are that same, studiesly the expectents

Dividing with exponents: Submit exposiçate that have the same have

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

 $\frac{-40a^4b^3}{2a^2} = 7a^3b^3$

Properties of Powers

- . Product of powers: of it of it are in
- Quotient of persons or = or = or =
- Person of a powers for it manner. Power of zero; of = 1, if a it 0.
- Person of a product; (adi)* = aris*

Percent of a questioner.

$$\left(\frac{d}{h}\right)^2 = \frac{d^2}{h^2}, \ \forall \ h \neq 0$$

Scientific Notation & the Powers of 10

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

Scientific Notation for Large Numbers.

2 x90 000,000 - 2 x90 n00 000 0

- . Move the decision point to the left to per 2.89 (a mumber between 1 and 10);
- · Count the number of places the decimal point mesord
- · Use the power of 10 to represent the manufact: 2.800 x 100

NOTE: For very large numbers, the pointer in positive

Scientific Notation for Small Numbers.

0.0000073

- · Move the doctional point to the right to got T.3-ta mandor between I and 103
- Count the mumber of places the Acciental point moved
- · Use the power of 10 to represent the manufactor T.N in 1987.

NOTE: For very small murders, the privacy is regulative

Operations with Scientific Notation

Use properties of exponents to solve. problems involving scientific notation

(2.5 - 10 N.T - 10 ") - 21.73 - 10 "- $2.325 - 10^{-5}$

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

Standard 8th Mathematics Self Study Guide

David Baud

Standard 8th Mathematics Self Study Guide:

Eureka Math Grade 8 Study Guide Great Minds, 2016-05-16 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year The Eureka Math Curriculum Study Guide Grade 8 provides an overview of all of the Grade 8 modules including Integer Exponents and Scientific Notation The Concept of Congruence Similarity Linear Equations Examples of Functions from Geometry Linear Functions Introduction to Irrational Numbers Using Geometry

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