

Do Now: Write the mixed number as an improper fraction.

- 1.) $5 \frac{2}{3}$ $5 \times \frac{2}{3} = \frac{17}{3}$
- 2.) $8 \frac{7}{10}$ $8 \frac{7}{10} = \frac{87}{10}$
- 3.) $-2 \frac{2}{3}$ $-2 \frac{2}{3} = (-1)(2 \frac{2}{3}) = (-1)(\frac{8}{3}) = \frac{-8}{3}$
- 4.) $-6 \frac{3}{4}$ $-6 \frac{3}{4} = \frac{-27}{4}$

Dec 5-7:28 AM

⑧ $-2r(4r+15)$

① $-2r(4r) + (-2r)(15)$

① $-8r^2 + (-30r)$

① $-8r^2 - 30r$

④ $643,160$
 $644,160$

Oct 1-8:06 AM

⑩ $9+a-2-7a$

$1a, -7a$

$1, -7$

Oct 1-8:09 AM

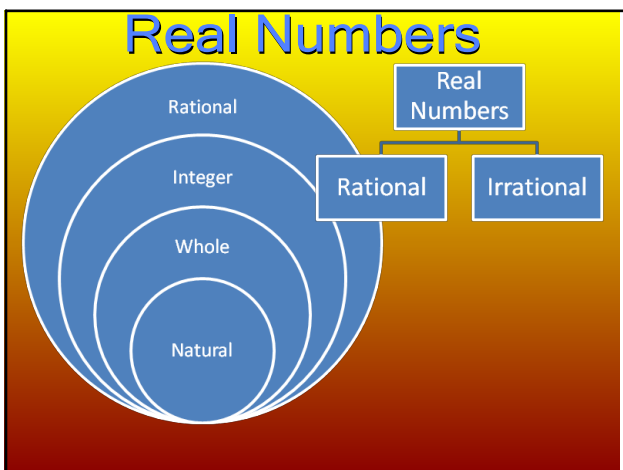
5.1 Rational Numbers

7.NS.1

- SWBAT write fractions as decimals and vice versa.
- SWBAT show that a number is rational by writing it as a quotient of two integers.

Calculators: No

Dec 5-7:29 AM



Jul 1-8:54 AM

rational number-a real number that can be written as a ratio of two integers

- includes fractions and decimals
- terminating decimal: ends with remainder 0
- repeating decimal: has a digit or block of digits that repeat

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integers- a real number that only has the value of zero for its decimal places

- negative or positive numbers
- whole numbers and their opposites
- no fractions or decimals
- ..., -2, -1, 0, 1, 2,...

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whole number- a real number that includes zero and has all positive integers

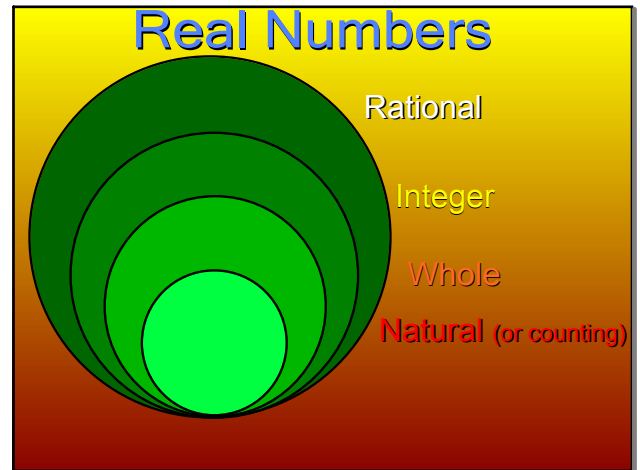
- no negatives, fractions, or decimals
- 0, 1, 2, 3,...

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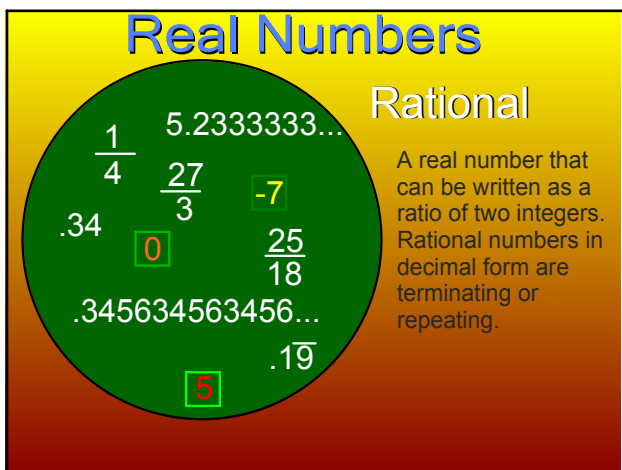
natural number- a real number that has only positive integers and does not include zero

- counting numbers only
- 1, 2, 3,...

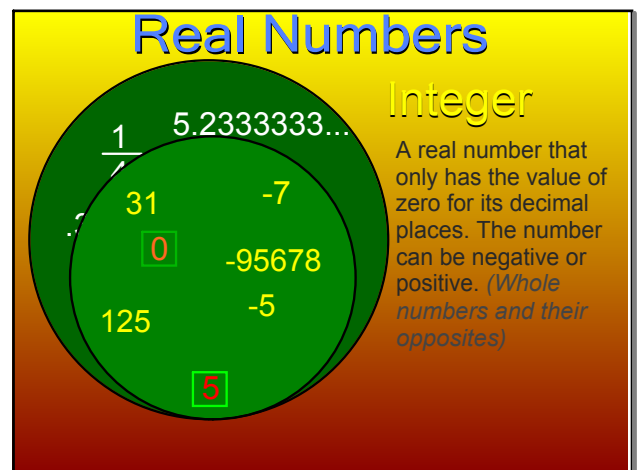
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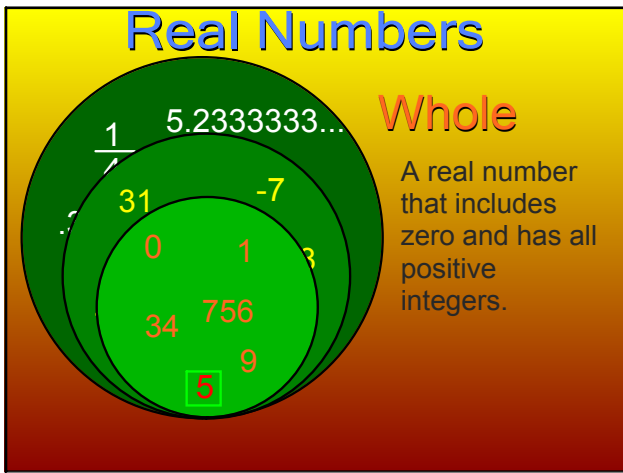
Jul 1-8:54 AM



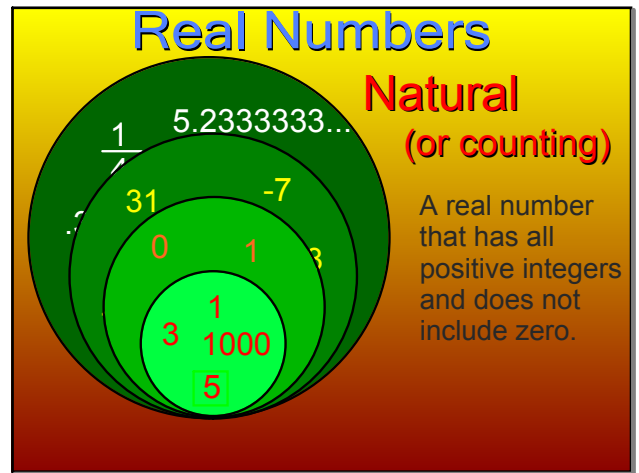
Jul 1-8:54 AM



Jul 1-8:54 AM



Jul 1-8:54 AM



Jul 1-8:54 AM

Show that the number is rational by writing it as a quotient of two integers → fraction form

a. $7 = \frac{7}{1}$

b. $-10 = \frac{-10}{1}$

c. $5 \frac{3}{4} = \frac{5 \times 4 + 3}{4} = \frac{23}{4}$

d. $-3 \frac{1}{2} = \frac{-7}{2}$

Sep 23-2:51 PM

a.) Write $\frac{3}{8}$ as a decimal.

$\frac{3}{8} = 0.375$

$8 \overline{) 3.000}$
 $\underline{-24}$
 60
 $\underline{-56}$
 40
 $\underline{-40}$
 0 ← remainder (terminating)

b.) Write $\frac{5}{11}$ as a decimal.

$\frac{5}{11} = 0.4545$ or $0.\overline{45}$

$11 \overline{) 5.00000}$
 $\underline{-44}$
 60
 $\underline{-55}$
 50
 $\underline{-44}$
 60
 $\underline{-55}$
 50 repeating decimal

Dec 5-7:42 AM

a.) Write $\frac{7}{12}$ as a decimal.

$0.58\overline{3}$

b.) Write $\frac{5}{8}$ as a decimal. 0.625

Dec 5-7:42 AM

Shamaya and Jada are collecting leaves. In Shamaya's collection of 45 leaves, 4 are oak leaves. In Jada's collection of 36 leaves, 3 are oak leaves. Whose collection has a greater fraction of oak leaves?

Shamaya
 $\frac{4}{45} = 0.08\overline{8}$
 0.088

Jada
 $\frac{3}{36} = 0.08\overline{3}$
 0.083

Shamaya
 +u

Dec 5-7:46 AM

Writing terminating decimals as fractions

a.) 0.7 $\frac{7}{10}$ *tenths* *improper*

b.) -3.05 $-3\frac{5}{100} = -3\frac{1}{20} = -\frac{61}{20}$ *Mixed Number* *Improper Fract.*

Dec 5-7:50 AM

Writing terminating decimals as fractions

a.) 1.6

b.) -9.42

Dec 5-7:50 AM

Write repeating decimal as a fraction

$0.\overline{93}$

Dec 5-8:36 AM

Write repeating decimal as a fraction

$0.\overline{72}$ $x = 0.\overline{72}$
 $100x = 72.\overline{72}$

$$\begin{array}{r} 100x = 72.\overline{72} \\ - x = 0.\overline{72} \\ \hline 99x = 72 \end{array}$$

$x = \frac{72}{99} = \frac{8}{11}$

$0.\overline{72} = \frac{8}{11}$

Dec 5-8:36 AM

Ordering rational numbers from least to greatest.

$-5/4, -0.2, 4.31, -3, 5/2, -13/3$


Dec 5-8:37 AM

Exit Pass 5.1

Describe and correct the error in writing the repeating decimal $14.1232323\dots$ using a bar.

$14.\underline{1232323}\dots = 14.\overline{123}$

$14.1\overline{23}$



Sep 23-11:39 AM

"Don't blame the sea if you cannot catch a fish."

Working individually or with a partner,
complete the worksheet.



Sep 23-11:39 AM

Reflection of Today's Lesson

5.1 Rational Numbers

7.NS.1

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Homework

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