0 Number Classification

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$i = \sqrt{-1}$ imaginary #

$\sqrt{-2} = 2i$

Precal 11

Name:

$\dfrac{2}{0} =$ undefined

ch5: Radical Equations

Irrational Numbers — Cannot be written as a fraction

(Ex: π, $\sqrt{2}$

non-terminating AND non-repeating

10

Natural Numbers

$1, 2, 3$ ——— $1, 2, 3, ...$

Whole Numbers

$0 \qquad x^2$ ——— $0, 1, 2, 3, ...$

Integers ——— $\dfrac{-2}{17}$ $..., -3, -2, -1, 0, 1, 2, 3, ...$

$\dfrac{5}{1} \qquad \dfrac{10}{2} \qquad -1$

$\dfrac{p}{q} \, 270 \qquad \qquad -2$

$1.5 = \dfrac{3}{2} \qquad \qquad -3$

$\dfrac{3}{4} \qquad 3.14$

Rational Numbers 0.009 any # that can be written as a fraction, $\dfrac{a}{b}$ where $b \ne 0$

$0.35 = \dfrac{35}{100} \qquad 0.\overline{6} = 0.666... \qquad = \dfrac{9}{1000}$
$\qquad \qquad \qquad \qquad = \dfrac{6}{9}$

$\dfrac{5}{6} \qquad 1.76$ Repeating decimals __can__ be written as fractions!

This cone holds the **Real Number** System

Cherry Included!

Number Sprinkles

$0 \qquad 1 \qquad 2$

$3 \qquad 15 \qquad 10$

$\dfrac{3}{4} \qquad .009$

$5/6 \qquad 1.76$

$3/2 \qquad \boxed{x^2}$

$p/q \qquad \pi$

$3.14 \qquad \sqrt{100} = 10$

$-1 \qquad -2$

$-3 \qquad -2/17$

Ice Cream "Flavors"

Irrational-Cherry

Natural-Vanilla

Whole-Mint

Integers-pink cotton candy

Rational-Blue Blast