

August 23, 2017
 Math Jam Fridays
 12:00 - 2:00
 Rm # 320
 Dr. Kidane

Aug 23-9:55 AM

$N = \{1, 2, 3, \dots\}$
 $n = mk$
 $p = p \cdot 1$ prime number
 * If not prime, then it is a composite number.
 Fundamental Theorem of Arithmetic

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$326 = 2 \cdot 163$
 $2 \cdot 163$

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zero $\rightarrow 0$
 $W = \{0, 1, 2, 3, \dots\}$
 whole
 $a + 0 = a$
 Additive Identity (A.I.)
 $a + (-a) = 0$
 Additive Inverse (A.I.)
 $5 + 0 = 5$
 $5 + (-5) = 0$
 $-12 + 12 = 0$

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$5x + 5 = 25$
 $+0$ -5 A.I. -5

 $5x + 0 = 20$
 $5x = 20$

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$Z = \{\dots, -2, -1, 0, 1, 2, \dots\}$
 Integers
 $\{0, \pm 1, \pm 2, \pm 3, \dots\}$
 $15 \ N, W, Z$

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$\mathbb{Q} = \left\{ \frac{m}{n} \mid \begin{array}{l} \text{such} \\ \text{that} \end{array} m \text{ and } n \in \mathbb{Z}, \text{ and } n \neq 0 \right\}$

Rational
(Fractions)

$\frac{3}{4}, \frac{1}{9}, \frac{5}{8}, -\frac{6}{13}$ Proper

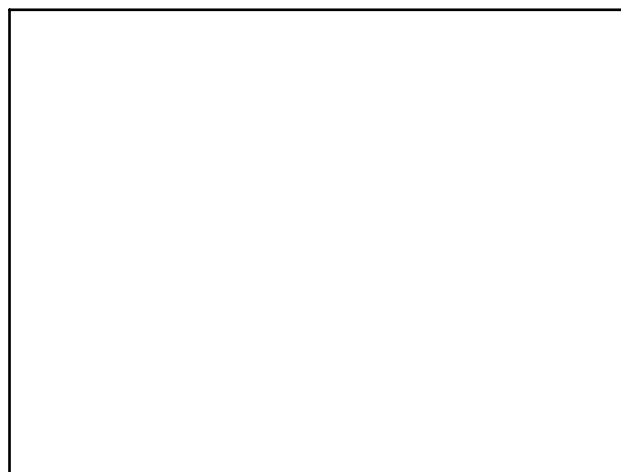
$\frac{4}{3}, \frac{9}{1}, \frac{8}{5}, -\frac{13}{6}$ Improper

Why can not n be zero?

$\frac{3}{0}$ of a whole

= Undefined

Aug 23-10:40 AM



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