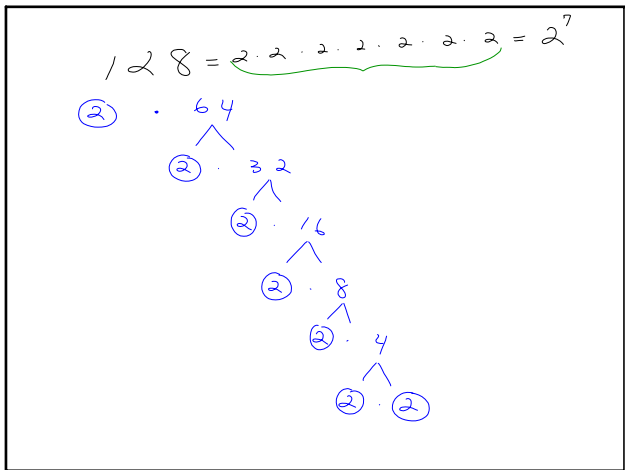


January 13, 2016
 * Math Tutoring - rm 583
 * my (your) office hours
 1:00 - 3:00 M T W
 * Math Jam Fridays
 12:00 - 2:00
 rm # 320

Jan 13-9:53 AM

Sets
 Prime numbers
 $P = \{2, 3, 5, 7, 11, 13, 17, 19, \dots\}$
 Composite: made up of a product of primes

Jan 13-10:17 AM



Jan 13-10:22 AM

$n = m \cdot k$
 Let $n = 12$; $m = 4$; $k = 3$
 $\frac{12}{4} = 3$
 $12 = 4 \cdot 3$
 factors of 12

Jan 13-10:25 AM

zero $\rightarrow 0$
 $x + 4 = 4$
 $\frac{-4}{0} \quad \frac{-4}{0}$
 $x = 0$

Jan 13-10:29 AM

$W = \{0, 1, 2, 3, \dots\}$
 ↑
 set of whole numbers
 $Z = \{\dots, -2, -1, 0, 1, 2, \dots\}$
 ↑
 Integers

Jan 13-10:32 AM

$\mathbb{Q} = \left\{ \frac{a}{b} \mid a \in \mathbb{Z} \neq b \in \mathbb{Z}, \text{ where } \underline{b \neq 0} \right\}$

↑
 set of Rational Numbers

↑
 Fraction that

↑
 such that

Set-Builder Notation

Jan 13-10:35 AM

Fractions

$\frac{3}{4}$; $3 \div 4$; $4 \overline{) 3.0}$ or $4 \overline{) 3}$

fraction
 bar
 ↓
 Division

0.75
 ↓
 75%

$4 \overline{) 3.0}$
 $\underline{75}$
 20
 $3:4$

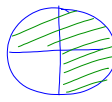
Jan 13-10:45 AM

$\frac{8}{0}$

↓
 Undefined!

$\frac{8}{8} = 1$

$\frac{3}{4}$



Jan 13-10:40 AM