

August 23, 2016

- 1.) Student Score Calculator #1 Due Monday.
- 2.) Syllabus Due Monday.

Aug 23-8:59 AM

Sets: a collection of things
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 Members

Aug 23-9:18 AM

Mathematical Sets

\mathbb{N} (the set of Natural Numbers)

$\{1, 2, 3, \dots\}$

$\mathcal{E} = \{2, 4, 6, \dots, 20\}$

$\{8, 10, 12, 14, 16, 18\}$

Aug 23-9:22 AM

$\{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, \dots\}$

what is a Prime number?

- a Natural Number that has as divisors itself and "1".

$\mathcal{P} = \{2, 3, 5, 7, 11, 13, 17, 19, \dots\}$

a subset of \mathbb{N}

Prime $7 = 7 \cdot 1$

Composite $8 = 8 \cdot 1 = 2 \cdot 2 \cdot 2 \cdot 1$

Composite of a Product of Primes

Factor tree

Fundamental Theorem of Arithmetic

Aug 23-9:29 AM

\mathbb{W} (set of whole numbers)

$\{0, 1, 2, 3, \dots\}$

↑
 zero

\mathbb{Z} (set of Integers)

$\{\dots, -2, -1, 0, 1, 2, \dots\}$

negative \mathbb{N} zero \mathbb{N} or positive

Aug 23-9:43 AM