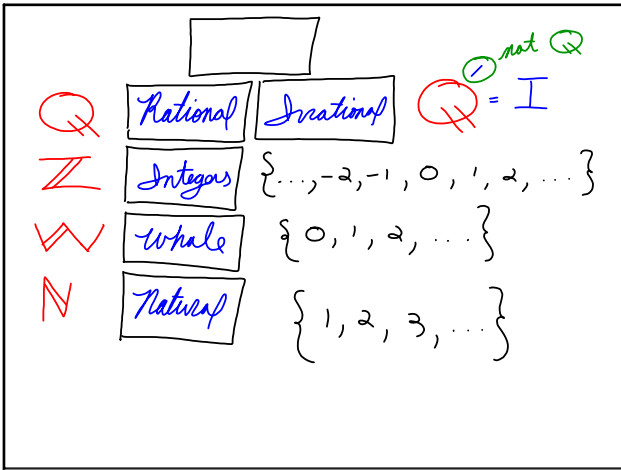


August 23, 2018
 * Quiz #1 - Tuesday
 Reading webpages

Aug 23-9:18 AM

Sets: collection of
objects
 ↓
 elements or members

Aug 23-9:49 AM



Aug 23-9:52 AM

Rational Numbers

$$Q = \left\{ \frac{a}{b} \mid a \text{ \& } b \in Z \text{ and } b \neq 0 \right\}$$

such that "..."
↑ element of
↑ not equal to

$$Q' = \{ \text{not rational} \}$$

Aug 23-10:07 AM

$8 \notin \{ 8, 16, 24, 32, \dots \}$

\in element of
 \notin not element of

Aug 23-10:22 AM

$A = \{ 1, 2, 3 \}$

number (count) of elements
 • Cardinal number
 $n(A) = 3$
↑ name of set

$B = \{ \underset{1}{2}, \underset{2}{4}, \underset{3}{6}, \dots, \underset{6}{12} \}$
 $n(B) = 6$

$C = \{ 2, \dots, 12 \}$ inclusive
 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Aug 23-10:31 AM

$$\{a, b, \dots, z\}$$

Aug 23-10:39 AM

$$A = B$$

* Have the same elements

A and B are equivalent

* They have the same
cardinal number

$$A = \{1, 2, 3\}$$
$$B = \{a, b, c\}$$

Aug 23-10:41 AM