

August 28, 2017  
 \* Quiz #1 - Wednesday  
 on COR + 1.1

Aug 28-9:52 AM

Sets: a collection of well-defined things.

$$\mathbb{N} = \{1, 2, 3, \dots\}$$

$$\mathbb{W} = \{0, 1, 2, 3, \dots\}$$

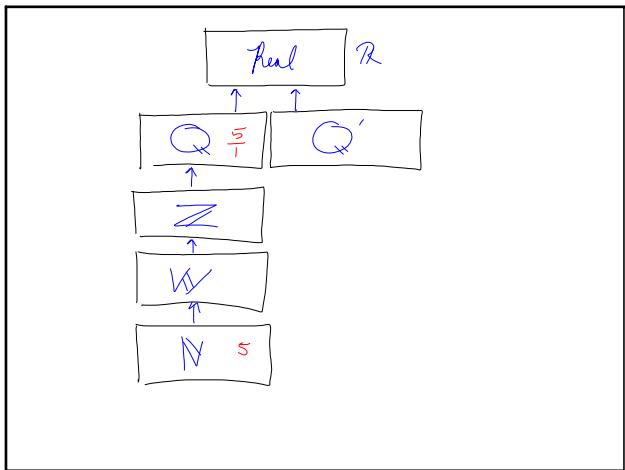
$$\mathbb{Z} = \{\dots, -2, -1, 0, 1, 2, \dots\}$$

$$\mathbb{Q} = \left\{ \frac{m}{n} \mid m, n \in \mathbb{Z} \text{ and } n \neq 0 \right\}$$

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

$$\mathbb{R} = \{x \mid x \text{ is a real number}\}$$

Aug 28-10:06 AM



Aug 28-10:13 AM

	$\mathbb{N}$	$\mathbb{W}$	$\mathbb{Z}$	$\mathbb{Q}$	$\mathbb{Q}'$	$\mathbb{R}$
-1023	/	/	✓	✓	/	✓
$-\frac{13}{9}$	/	/	/	✓	/	✓
45	✓	✓	✓	✓	/	✓
$\pi$	/	/	/	/	✓	✓
0.0001	/	/	/	✓	/	✓

Aug 28-10:16 AM

$$0.\overline{62} = \frac{62}{100}$$

$$= \frac{31}{50}$$

0. $\overline{62}$

① Let  $x = 0.\overline{62}$

②  $100x = 62.\overline{62}$

③  $1x = 0.\overline{62}$

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$$\frac{99x}{99} = \frac{62}{99}$$

$$x = \frac{62}{99}$$

Aug 28-10:35 AM



Aug 28-10:46 AM