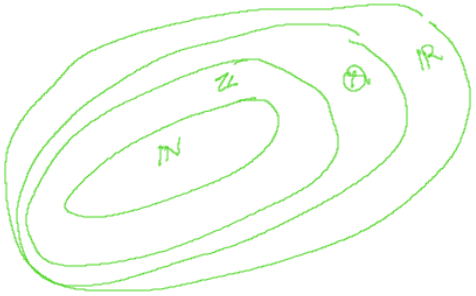
Real Numbers

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

$\mathbb{Z} = \{\dots, -3, -2, -1, 0, 1, 2, 3, \dots\}$ integers

$\mathbb{Q} = \left\{ \frac{p}{q},\ p, q \in \mathbb{Z},\ q \neq 0 \right\}$: rational numbers

$\mathbb{R}$ = Real numbers.



Ex Identify the number

$\frac{28}{14}$, $-\frac{16}{4}$, $\sqrt{49}$, ∞, $\ln(3)$, $e \approx 2.718\dots$ (not periodic)

$(\ln e)^2$, $3!$, $\frac{1}{\pi}$, $\frac{13}{7}$, $\sqrt{7}$, $1.\overline{3}$, $\sqrt{-3}$,

$\frac{1}{0}$.