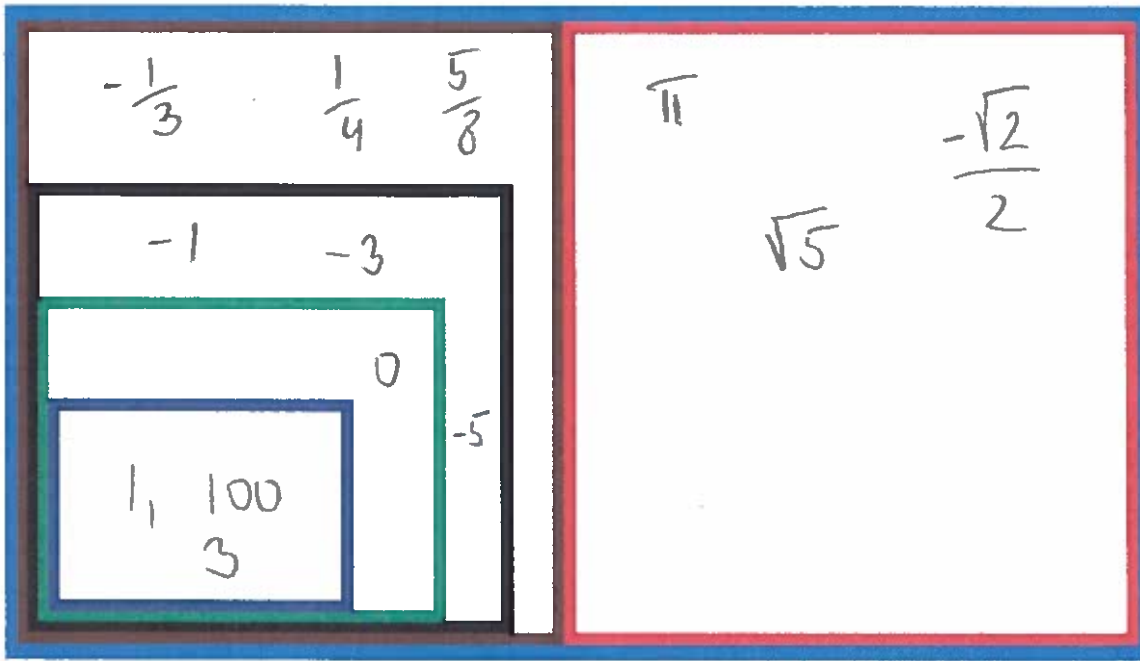


Review

The Real Number System

Not \mathbb{R} : $\sqrt{-16}$, $\sqrt{-\pi}$
 $\sqrt[4]{7}$, ...



Number set	Symbol	10 examples
Real numbers	\mathbb{R}	π , 100, -3.5, $\frac{1}{3}$, $\sqrt{25}$, $\frac{15}{8}$, 3.25, $\frac{\sqrt{7}}{3}$, 1, 0
Rational numbers	\mathbb{Q}	$\frac{3}{2}$, 0.25, -100, $\frac{15}{3}$, -100×10^5 , 5, $\frac{18}{53}$, $-\frac{4}{9}$, $\sqrt{16}$, 0
Irrational numbers	$\bar{\mathbb{Q}}$	π , $\sqrt{5}$, $-\frac{\pi}{3}$, $\frac{\sqrt{7}}{2}$, e, $-\sqrt{3}$, $\frac{\sqrt{2}}{2}$, 3π , $\sqrt{20}$, $\frac{17}{\pi}$
Integers	\mathbb{Z}	-1, 0, 1, 5, 100 000, 10^9 , 8, -21, $\sqrt{36}$, $\frac{\sqrt{100}}{2}$
Whole numbers	\mathbb{W}	0, 1, 2, 3, 10^6 , 5, 100, 15, $\frac{11}{\pi}$, 284
Natural numbers	\mathbb{N}	1, 2, 250, 371, 10^7 , 13, 54, 109, 8, 21

not a proper set - good for high school