

## ■ Quick Reference: Number Systems Summary

Set	Symbol	Definition	Examples
Natural Numbers	■	Counting numbers (start at 1 or 0)	1, 2, 3, ...
Whole Numbers	-	Naturals plus 0	0, 1, 2, ...
Integers	■	Whole numbers and negatives	-3, -2, -1, 0, 1, 2, ...
Rational Numbers	■	Fractions of integers, repeating/terminating decimals	1/2, -3/4, 0.25, 5
Irrational Numbers	-	Not fractions, non-repeating decimals	$\pi$ , $\sqrt{2}$ , e
Real Numbers	■	Rationals + irrationals (number line)	All above
Complex Numbers	■	$a + bi$ , includes imaginary unit i	$3+2i$ , $-1-4i$