CLASS NOTES

INTRODUCTION
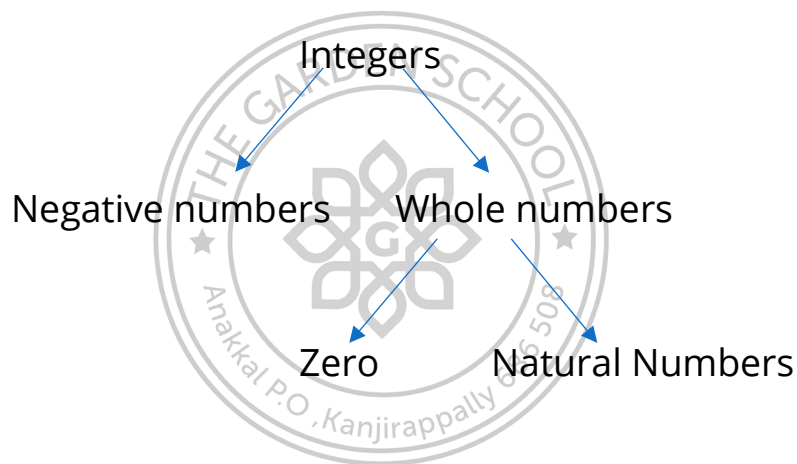
Integers

The set of integers, usually represented by Z, contains zero, negative numbers and positive numbers. That is,
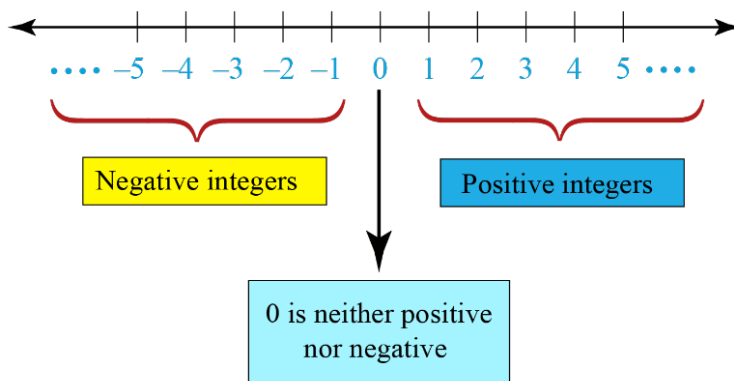
Integers = Whole numbers + negative numbers

Z = {...-3, -2, -1, 0, 1, 2, 3...}

Remember, integers do not include decimals or fractions.

Integers on a Number Line

Rules of Integers

Adding Positive and Negative Integers

Integer Sign	Operation	Answer Sign	Example
+ + +	Add	+	$2 + 5 = 7$
− + −	Add	−	$-2 + (-5)$ $= -2 - 5$ $= -7$
+ + −	Subtract	Larger Integer's Sign	$2 + (-5)$ $= 2 - 5$ $= -3$
− + +	Subtract	Larger Integer's Sign	$-2 + 5$ $= 3$

Subtracting Positive and Negative Integers

Integer Sign	Operation	Answer Sign	Example
+ − +	Subtract	Larger Integer's Sign	$2 - 5$ $= -3$
− − −	Subtract	Larger Integer's Sign	$-2 - (-5)$ $= -2 + 5$ $= 3$
+ − −	Add	+	$2 - (-5)$ $= 2 + 5$ $= 7$
− − +	Add	−	$-2 - 5$ $= -7$