

Chapter-6 Integers

Introduction

Whole No : All counting no's including 'zero' are called whole no.

Eg : 0, 1, 2, 3, 4, 5, ...

Natural no : All counting no. are called natural no.

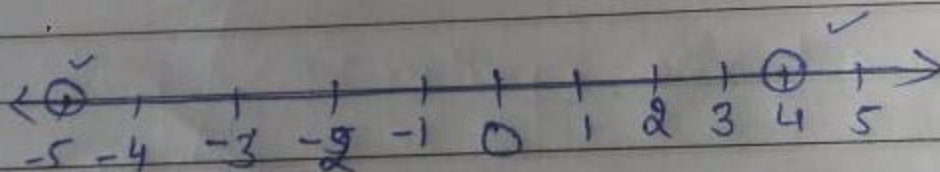
Eg : 1, 2, 3, 4, 5, ...

Integers : whole no. including -ve and +ve no. are called Integers

Eg -ve, 0, +ve.

Number line :
left (-ve)

Right (+ve)



Plot = 4 & -5

Adding using Number line

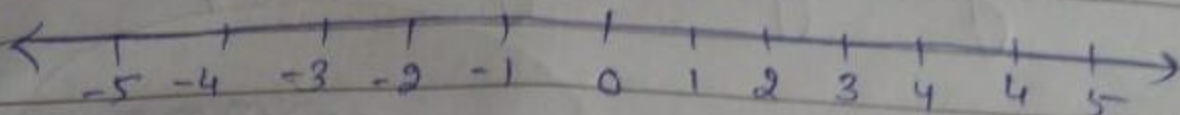
* more \Rightarrow means add \rightarrow right add in right
* less \Rightarrow means subtract \rightarrow sub in left

* -1 is big than -6
-6 is small

Left

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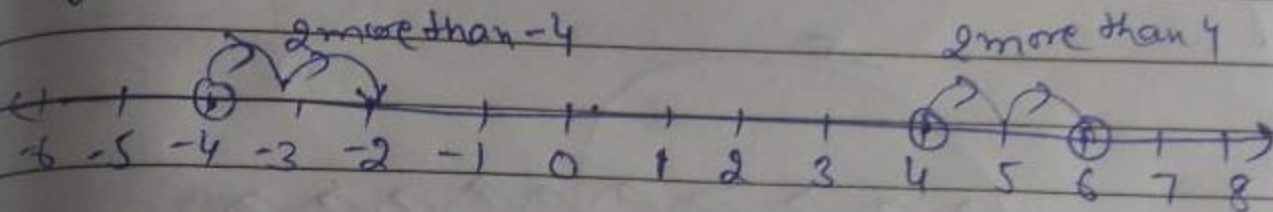
Right



~~-1 -2 -3 -4 -5~~

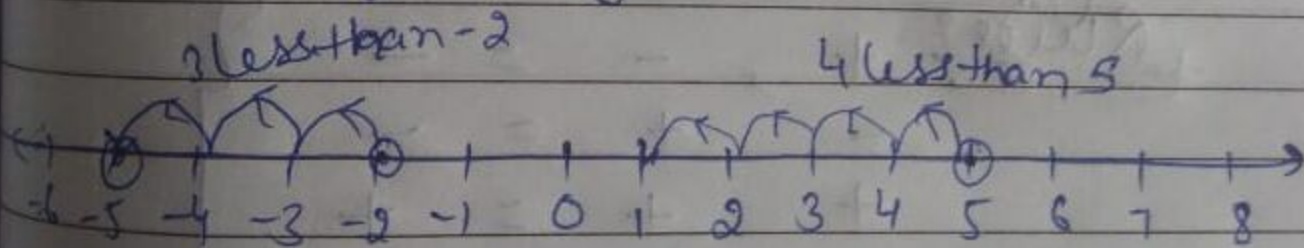
- * left side number always decrease
- * Right side number always increase

eg: 2 more than 4



eg: 2 more than -4

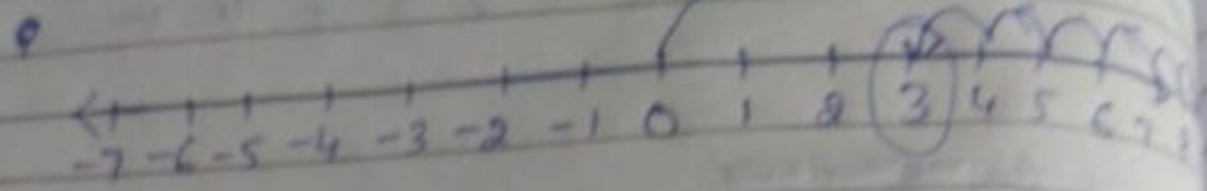
Subtracting using number line:



eg: 4 less than 5

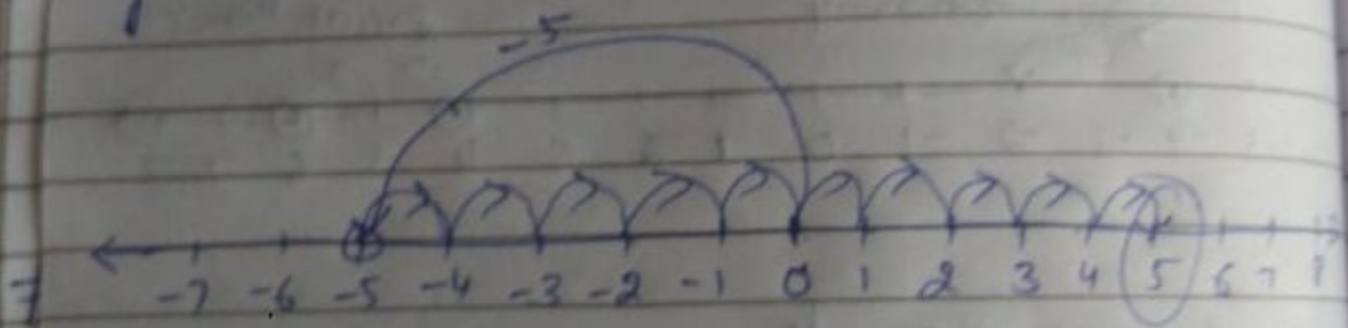
eg: 3 less than -2

Solving Integers Using Number Line



eg $\Rightarrow 9 + (-6) = 3$ Ans

eg: $-5 + 10 = 5$ Ans



Adding / Subtracting without Number Line

Rules:

+	,	-	=	-	}
-	,	+	=	-	
+	,	+	=	+	
-	,	-	=	+	

Sign always be according to Greater number

$$\underline{\text{Add}} = 11 + 6 = 17$$

$$11 + (-6) = 5$$

$$11 - 6 = 5$$

$$-11 + (-6) =$$

$$-11 - 6 = -17$$

$$\underline{\text{Subtract}} \quad 11 - 6 = 5$$

$$11 - (-6) \Rightarrow 11 + 6 = 17$$

$$-11 - 6 \Rightarrow -17$$