

Preparations for placements.

Idenotation in Mumber Systems.

N Natural Numbers in Countable numbers (1.23et)
There are infinite natural numbers and
Smallest number is (1)

E - Even Numbers -> Numbers divisible by 2 (246)
Denoted by E = 2, 4.6.8. -- (smallest 2)

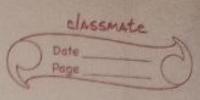
0 odd Numbers : n Not dévisible 2 (1,3,5,7...) 0 = 1,3,5,7... (Smallest 1)

Based on divisiblity there are two types
of Natural Numbers which

Drime Numbers in Natural Numbers which have exactly two factor, I and eitselt (smallest 2)

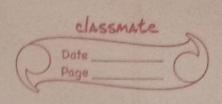
2) Compasite Numbers: Having more than 2 factors are composite Numbers 24 - 2x2x3x3 (smalles + 4)

blhale Numbersi- Natural Number along with zero (a) (smallest "0)



Integers: n Numbers with Negative & Non negative Natural Numbers with zero (o), Denoted by Zor I Real Numbers in Numbers those are depresent in Number line Rt = positive real Number R = Negative real Number. Real Number = R++R-Real Numbers = Rational Number + Irrational B Rational Numbers: 4 Any number that represented in P/q form and wher 9 70 Zero also Rational Number (1) Irrational Numbers in Numbers which are not or Cannot be put in P/q form

Fraction: - fraction is a quantity which expresses a part of the whole



Types of Fractions:

Proper fraction: - It humerator is less than its denominator i Ex= 1/2

Improper fraction in It numerator is more Than Denominator Ei= 2/1

Mixed Fraction: - Consists of Integer and Proper Fraction Ex- - 1/2.

Equivalent braction: - Fraction with Same value.

Ex: 1/2, 2/2.

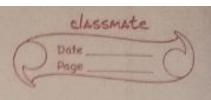
* Some of the operations (Add, Sub, Mul, Div)

Commutative property for addition: at b=b+a

Associative property for addition = (a+b)+c=a+(b+c)

Same for Sub, mul, Dix

C Complex Numbers 200 Number of the form
(atbi) -> i= imajuary Number.



Divisibility Rules

Divisible by 3 in Number divisible by 2 it

it is Ends with Even or 0

Divisible by 3 in Sum of digits divisible by 3

Divisible by 4 in last 2 digits or ends with 2 b's

(00) are divisible.

by 5 : m last digit is 5 or 0
by 6 : m divisible by both 2 and 3) then divisible

by 7 :w asculator (-9) for divisibility test

by 11 : " Sum of the digits in even place & Sum of the digits in odd place difference is 0 or multiple of 21.

by rgen

Division algorithm

Dividend = (Divisor x & notient) + Reminder

