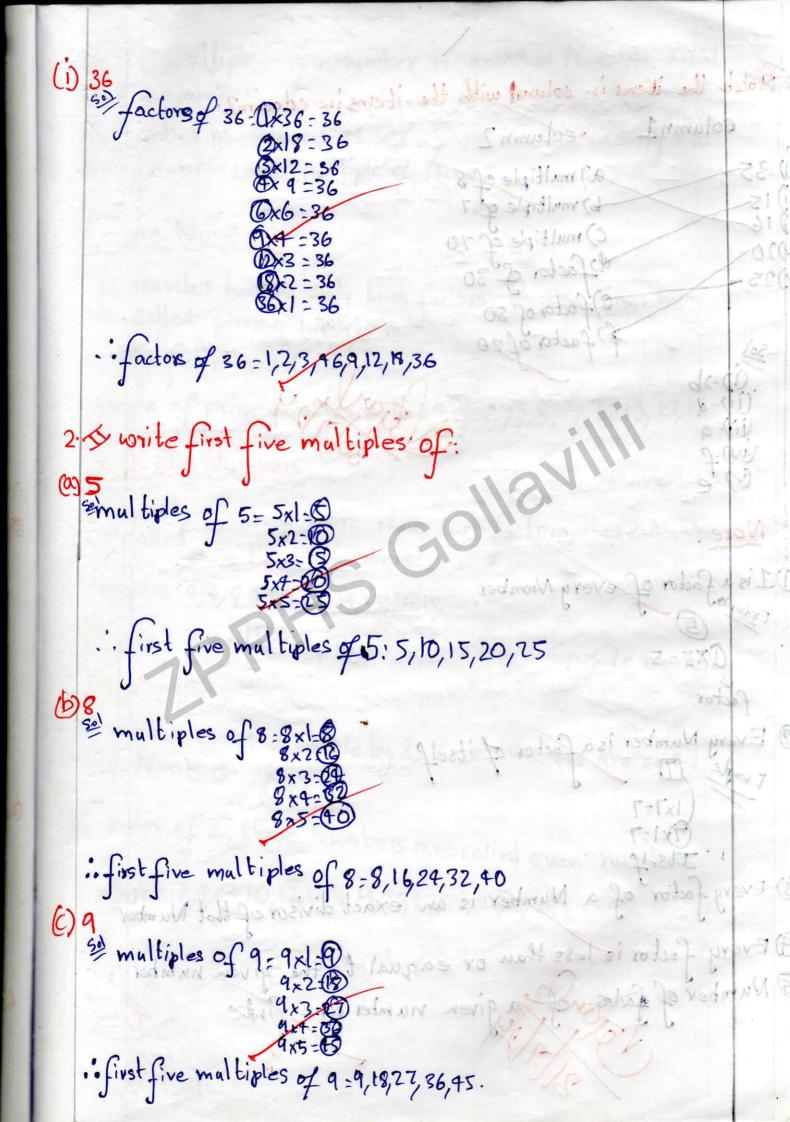
playing with Numbers Factor: A factor of a Number is an exact divisor of that Number. Frampies Find Cactors of 6 rs-lats 50) factors of 6 = 0x6=6 0x2=6 0x1=6 actors of 27:1,8,927 12 (12 (212-12 02 4 1 50 Jours .: factors of 6:1,2,3,6 Exercise 3. 1. I write all factors of the following Numbers factors of 24 (0x29:24 0x12:24 0x6=24 6x4=24 actors of 20:1,2,4,5,10,20 8x3:24 12/2:24 (29)x1=29 :- actors of 24:1,2,3,9,6,8,12,24 (50) factors of 15:015:15 0x5:15 0x3:15 112 /x 8 Ox3 = 15 octors of 18:1,2,3,69,18 actors of 25 Ox 23.2 ifactors of 15: 1,3,5,15 30) factors of 21 = 021-21 82 : Est la suopo :: factors of 21-1,3,720 03:21

staduming yin himore factors of 27:1x27-27
3x9=27 Mumber 15 ON exi (c) 12 factors of 12 (1x12-12 gx6 = 12 3x4=12 actors of 6:1235 : factor of 12:1,2,3,4,612 (30) factors of 20 (1x20-20)
(1x20-20)
(1x20-20)
(1x20-20)
(1x20-20) ·· factors of 20:1,2,4,5,10,20 59) factors of 16 (1x18:18 -Dx2=18 31-51 0:51 6 500 170 : factors of 18:1,2,3,6,9,18 (A) 23
50) factors of 23 (1 × 23-23) : factors of 23: 1,23 K-120 - 12 to 20012 \$214372 X32



6) Every multiple of anumber is greater than one equal to that Number. (1) The number of multiples of given number is infinite (8) Every Number is a multiple of itself. Prime Numbers: The number having only two factors, these numbers are called Prime numbers. : Namly factors are I and it self. Example of prime numbers below 202-2,3,5,7,1113,17,19 Composite Numbers; The number having more than two factors, these Numbers are called composite Numbers Examples: 4,6,8,9,10,12, 14,15,16,18,20-Note: I is neither a prime number nor composite number. Even Numbers: If A number exact divisible by 2, these numbers are called Even Numbers. (OR) Multiples of 2, these Numbers are called even numbers. Examples: 2,4,6,8,10,12,14,16,18,20,22,24,26,28,30, ---Note: 2 is a Even prime number.

cold Numbers; all releases is reduring to explain If a Number not divisble by 2, then these Numbers are Example: 1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,--Exercise 3.2 Numbers? Sum of any two as odd Numbers? (b) Even Given two odd Numbers = 7+1=8=even Number

3.75=8=even Number 9+13:22 = even Number i. Sum of any two odd Numbers is even numbers. Osol ... Statements are true of false. Given two even numbers: 918:12
6+10:16 26+30=56 10 0 12 Ation 21 L: ... Sum ofany two Even Numbers is Even Numbers. In moer exact divisible by 2, these numbers of 8/20 en Numbers (08) tiples of 2 these Numbers are called even number 2150 Even prime number

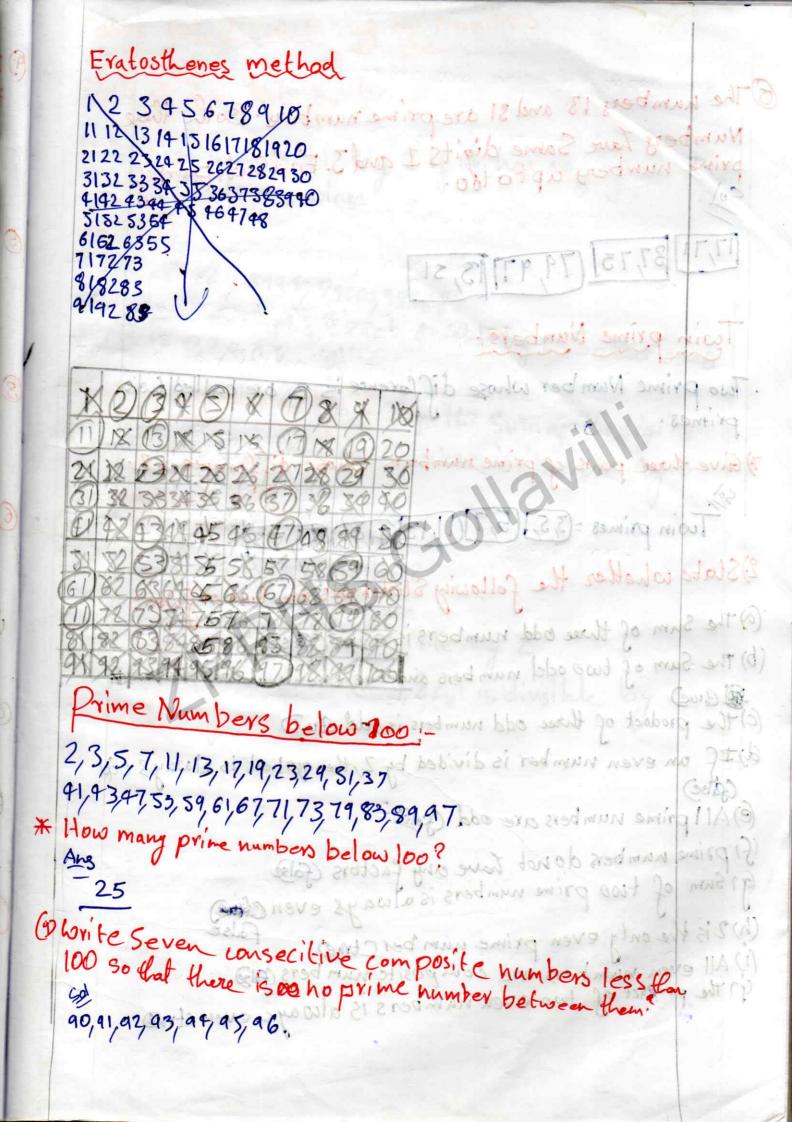
Write down Separetly the prime and composite numbers less than 20.

50 prime Numbers of Less than 20: 2,3,5,7,40,17,19 composite Numbers of Less than 20=4,68,1912,19,16,18 6) What is the greatest prime number between 1 and 10? Between the prime Number I and 10=2,3,5,0 i. greatest prime Number:7 8 Which of the following numbers are prime? (a) 23 b) 51 b) 37 b) 26

: prime Numbers = 23,37. : prime Numbers:23,37. O the Smalles prine Wi 6) Express the following as the Sum of two odd primes. Sum of two odd primes 27+37:44 Sum of two odd primes=13423:36 (0)24 - Sum of two odd prims: 11+13-24 - 24 Sum of two odd prime Numbers: 7+11-18

DExpress each of the following humbers as the Sum of
these odd primes: Sum of three odd primes=3+7+11:21

of three odd primes=3+7+11:21



ostrones method
Mam Des. 12
Numbers Lave Same digits I and 3. Find Such paingog
Prime number upto 19:15 I and 3. Find Cont
Sol Juch Paings
17.71 G = 10 4748
31,73 79 97 15 51
[7,71] 37,75] 79,97] [3,51]
Tosin prime Numbers:
Two prime Number whose difference
Two prime Number whose difference is 2 are called twin
Blive three pairs of prime numburs whose difference is 2
sol JI whose difference is 2
Twin primes = (3,5) (5,7) (113)
Twin primes = 3,5, 5,7 (1,13) 41,43) 71,73) 2) State whether the following State of
2) State whether the following Statements are true or false: (b) The Sum of three odd numbers is even (Cols)
(b) The Sum of three odd numbers is even Galse: (b) The Sum of two odd numbers and one even number is even coll the product of three odd numbers is add and one even number is even and one even number is even collected.
(b) The Sum of fundadd
(4100) The odd numbers and one even number is even
(c) the product of three odd numbers is add arms and one even number is even a dirided by 2, the product is along a
a) If an even number is divided
(Jaise)
(F) Drime numbers are odd Galso
(f) Prime numbers do real of Southern and make the
91 Sum of two prime numbers only factors Galse
(h) 2 k M. 1
(f) Prime numbers do not have any factors Galsa (g1 Sum of two prime numbers is always even chase (h) 2 is the only even prime number ctrue (i) All even numbers are composite numbers Galsa (j) The product of two even numbers is always even chase
(1) The product ac are composite numbers and
J two even numbers is alcon
and ays even three

Tests for Divisibility of Numbers! Tests of divisibility by 2 A Number is divisible by 2 if it has any of the digits 0,2,4,6,8 in its ones place Examples: 8100/8942/8944,89666,98868 The above examples exact divisible by 2 Sothat ones place is 0,2,4,6,8 Test of divisblilitys by "3" If the Sum of the digits is a multiple of 3, then the Number is divisible by 3. Example: 7,22 Sum of digits = 7+2+2+1:12

= 12 is clivisible by 2

i. So Griven number 7,22,1 is divisible by 3.