Worksheet-15   Subject: - Mathematics   Class: - VI   Teacher: - Mrs. Poonam Sunil

Name: _____ Class & Sec: _____ Roll No. _____ Date: 22.05.2020

Good Morning Students! In the previous class, I have discussed prime and composite numbers.

Today we will do Ex- 3.2

Q3: The number 13 and 31 are prime number. Both these numbers have same digits 1 and 3. Find such pairs of prime numbers up to 100.

Solution: (17, 71), (37, 73) and (73, 97)

Q4: Write down separately the prime and composite numbers less than 20.

Solution: **Prime numbers** from 1 to 20 are 2, 3, 5, 7, 11, 13, 17 and 19

Composite numbers from 1 to 20 are 4, 6, 8, 9, 10, 12, 14,15, 16, 18

Q5: What is the greatest prime number between 1 and 10?

Ans: Greatest prime number between 1 and 10 is 7.

Q6: Express the following as the sum of two odd prime.

Solution:

     (a) 44 = 3 + 41

     (b) 36 = 7 + 29

     (c) 24 = 5 + 19

     (d) 18 = 5 + 13

Q7: Give three pairs of prime numbers whose difference in 2.

[Remarks: Two prime numbers whose difference is 2 are called twin primes]

Solution: (17, 19), (29, 31), (71, 73)

Q8: Which of the following numbers are prime?

  a) 23 → Prime Number

  b) 51 → Composite Number

  c) 37 → Prime Number

  d) 26 → Composite Number

Q9: Write seven consecutive composite numbers less these 100 so that there is no prime number between them.

Solution: 90, 91, 92, 93,94, 95 and 96

Q10: Express each of the following numbers as the sum of three odd prime:

a) 21 = 3 + 7 + 11

b) 31 = 7 + 11 + 13

c) 53 = 13 + 17 + 23

d) 61 = 7 + 23 + 31

Q11. Write three pairs of prime numbers less than whose sum is divisible by 5. (Hint: 3 + 7 = 10)

(2 + 3 = 5), (3 + 17 = 20), (3 + 7 = 10)

Q12. Fill in the blanks:

a) A number which has only two factors is called a <u>prime number</u>.

b) A number which has more than two factors is called a <u>composite number</u>.

c) 1 is neither <u>prime</u> nor <u>composite</u>.

d) The smallest prime number is <u>2</u>.

e) The smallest composite number is <u>4</u>.

f) The smallest even number is <u>2</u>.

× -------------------------×

Today's class is over. I hope you understand it. Next I will meet you on Tuesday. Good bye children! (STAY FIT AND STAY HEALTHY)