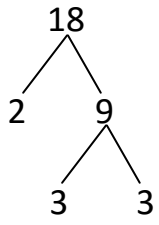
ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

27, BALLYGUNGE CIRCULAR ROAD, KOLKATA- 700019

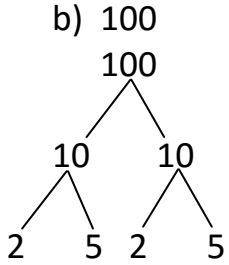
CLASS – IV SUBJECT- ARITHMETIC ANSWER WORKSHEET – 15 TOPICS – PRIME & COMPOSITE NUMBER + PRIME FACTORISATION DATE – 23.04.2020

1. **Fill in the blanks:**
   a) A prime number has only **2** factors.
   b) One factor of a prime number is **1**.
   c) **Composite** numbers have more than two factors.
   d) **1** is a unique number. It is neither prime nor composite.
   e) 9 is a **composite** number.
   f) An example of a pair of twin prime numbers is **3 and 5**.
2. **Write all the composite numbers:**
   a) Between 20 and 40
      Composite numbers between 20 and 40 are –
      21, 22, 24, 25, 26, 27, 28, 30, 32, 33, 34, 35, 36, 38, 39.
   b) Between 70 and 90
      Composite numbers between 70 and 90 are –
      72, 74, 75, 76, 77, 78, 80, 81, 82, 84, 85, 86, 87, 88.
3. **Write all the prime numbers:**
   a) Between 1 and 20
      Prime numbers between 1 and 20 are – **2, 3, 5, 7, 11, 13, 17, 19.**
   b) Between 40 and 60
      Prime numbers between 40 and 60 are – **41, 43, 47, 53, 59**.
4. **Find prime factorisation of the following numbers by factor tree method:**
   a) 18



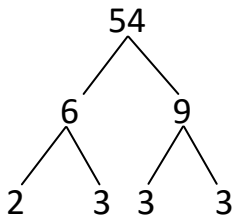
Ans. So, the prime factors of 18 are **2 x 3 x 3**.

   b) 100



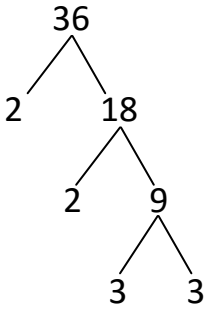
Ans. So, the prime factors of 100 are **2 x 2 x 5 x 5**.

c) 54



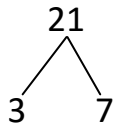
Ans. So, the prime factors of 54 are **2 x 3 x 3 x 3**.

d) 36



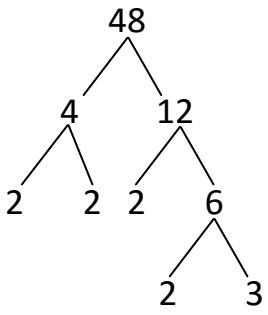
Ans. So, the prime factors of 36 are **2 x 2 x 3 x 3**.

e) 21



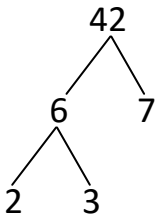
Ans. So, the prime factors of 21 are **3 x 7**.

f) 48



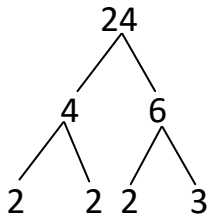
Ans. So, the prime factors of 48 are **2 x 2 x 2 x 2 x 3**.

g) 42



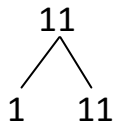
Ans. So, the prime factors of 42 are **<u>2 x 3 x 7</u>**.

h) 24



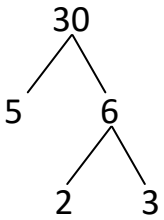
Ans. So, the prime factors of 24 are **<u>2 x 2 x 2 x 3</u>**.

i) 11



Ans. So, the prime factors of 11 are **<u>1 x 11</u>**.

j) 30



Ans. So, the prime factors of 30 are **<u>2 x 3 x 5</u>**.