I   Fill in the blanks:

a.   8, **16**, 24, **32**, **40**, 48

b.   13, 26, **39**, **52**, 65, **78**

c. $2 \times 2 \times 3 \times 3 =$ **36**

d. $2 \times 3 \times 5 =$ **30**

II   Write the next three multiples of:

a.   3 – **6, 9, 12**
b.   18 – **36, 54, 72**
c.   22 – **44, 66, 88**
d.   32 – **64, 96, 128**
e.   200 – **400, 600, 800**

III   Write the first four multiples of:

a.   7 – **7, 14, 21, 28**
b.   15 – **15, 30, 45, 60**
c.   35 – **35, 70, 105, 140**
d.   19 – **19, 38, 57, 76**
e.   10 – **10, 20, 30, 40**

IV   Find the factors of:

a.   38

$$\left(\begin{array}{c} 1 \times 38 \\ 2 \times 19 \end{array} \right)$$

Ans   The factors of 38 are 1, 2, 19 and 38.

b.   77

$$\left(\begin{array}{c} 1 \times 77 \\ 7 \times 11 \end{array} \right)$$

Ans   The factors of 77 are 1, 7, 11 and 77.

c.   86

$$\left(\begin{array}{c} 1 \times 86 \\ 2 \times 43 \end{array} \right)$$

Ans   The factors of 86 are 1, 2, 43, 86.

V   Find the prime factors using division method:

a.   27

3	27
3	9
3	3
	1

Ans The prime factors of $27 = 3 \times 3 \times 3$

b.   64

| 2	64
2	32
2	16
2	8
2	4
2	2
	1

Ans   The prime factors of $64 = 2 \times 2 \times 2 \times 2 \times 2 \times 2$

VI   Find the prime factors using factor tree method:

a.   45

$$
\begin{array}{c}
45 \\
\swarrow \qquad \searrow \\
3 \qquad\qquad 15 \\
\swarrow \quad \searrow \\
3 \qquad 5
\end{array}
$$
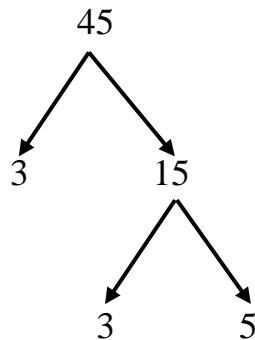
Ans   The prime factors of $45 = 3 \times 3 \times 5$

b.   98

$$
\begin{array}{c}
98 \\
\swarrow \qquad \searrow \\
2 \qquad\qquad 49 \\
\swarrow \quad \searrow \\
7 \qquad 7
\end{array}
$$
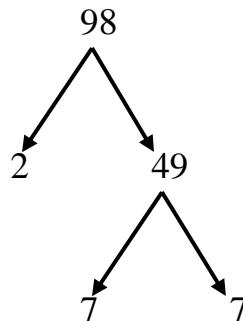
Ans   The prime factors of $98 = 2 \times 7 \times 7$

VII   Value Based Question: (Any related answers are accepted)

1.   Prime factorization shows the relation between a set of prime numbers to get a composite number. In the same way we also are a set of individuals in a family. Write down two points on how you will maintain good bond in your family.

Ans   **1. I will help the elders in the family.**

2. I will be kind towards my siblings and cousins.

VIII   Application based question: (Personal response question)

1.   There is only one unique set of prime factors for any number. In what way do you think you are unique? Write two points on your unique quality.

Ans   _____

_____