ASSIGNMENT – 20

STD IV   **MATHEMATICS**

CHAPTER 7   **L.C.M AND H.C.F**

Do the following assignment in your Maths copy.

1.   Find out the LCM of the following numbers by listing the common multiples.

Eg: **6 , 10**

Solu: Multiples of 6 = 6, 12, 18, 24, 30, 36, 42, 48, 54, 60,….

Multiples of 10 = 10, 20, 30, 40, 50, 60, 70,….

Common multiples of 6 and 10 = 30, 60, ….

LCM of 6 and 10 = 30

a)   5 , 8

b)   12 , 15

c)   12 , 18 , 24

2.   Find out the L.C.M of the following numbers by prime factor method:

Eg.   **40 , 60 , 80**

2	40
2	20
2	10
5	5
	1

2	60
2	30
3	15
5	5
	1

2	80
2	40
2	20
2	10
5	5
	1

$40 = 2 \times 2 \times 2 \times 5 = 2^3 \times 5$

$60 = 2 \times 2 \times 3 \times 5 = 2^2 \times 3 \times 5$

$80 = 2 \times 2 \times 2 \times 2 \times 5 = 2^4 \times 5$

L.C.M of 40, 60 and 80 = 2 x 2 x 2 x 2 x 3 x 5

= 240

a) 24 , 56

b) 48 , 72 , 80

c) 75 , 120 , 150