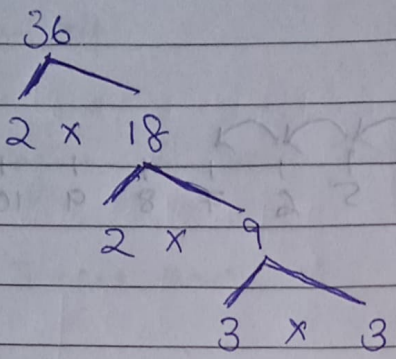
C.W
21.6.21

Ch-8
H.C.F And L.C.M

Prime Factorization -

Factor tree -

36



Factorization Method -

36

2	36
2	18
3	9
3	3
	1

$36 = 2 \times 2 \times 3 \times 3$

$36 = 2 \times 2 \times 3 \times 3$

Exercise-8(A)
Evaluation question -

1. write the factors of -

i) 15 - 1, 3, 5 and 15

ii) 55 - 1, 5, 11 and 55

iii) 48 - 1, 2, 3, 4, 6, 8, 12, 16, 24, 48

iv) 36 - 1, 2, 3, 4, 6, 9, 12, 18, 36

v) 84 - 1, 2, 3, 4, 6, 7, 12, 14, 21, 28, 42, 84

2. Write all prime numbers:

i) less than 25 -
2, 3, 5, 7, 11, 13, 17, 19, 23

ii) between 15 and 35 -
17, 19, 23, 29, 31,

iii) between 8 and 76 -
11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73.

3. Write the prime numbers from:

i) 5 to 45 - 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43.

ii) 2 to 32 - 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31.

iii) 8 to 48 - 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47.

iv) 9 to 59 - 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59.

4. Write the prime factors of :

i) 16 -

2	16
2	8
2	4
2	2
	1

Prime factors of 16 is 2.

ii) 27

3	27
3	9
3	3
	1

Prime factors of 27 is 3.

5. If P_n means prime factors of n, find:

i) P_6

Prime factors of 6

2	6
3	3
	1

Prime factors of 6 are 2 and 3.

ii) P_{24}

Prime factors of 24

2	24
2	12
2	6
3	3
	1

Prime factors of 24 are 2 and 3.

iii) P_{50}

2	50
5	25
5	5
	1

Prime factors of 50 are 2 and 5.

iv) P_{42}

2	42
3	21
7	7
	1

Prime factors of 42 are 2, 3 and 7

HW 21.6.21

6

Exercise - 8A

4. iii) 35 - 5 | 35, 7

Prime factors of 35 are - 5 and 7.

iv) 49 - 7 | 49, 7

Prime factors of 49 is 7.