

HW
17.8.21

Exercise - 8(D)



4) Complete the following table:

Number	Product	H.C.F	L.C.M	Product of H.C.F and L.C.M
12 and 15	180	3	60	180
18 and 24	432	6	72	432
27 and 36	972	9	108	972
24 and 32	768	8	96	768
35 and 42	1470	7	210	1470

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9) Find the smallest number which when divided by 12, 16, and 20 leaves no remainder.

Ans: The L.C.M. of 12, 16 and 20 = $2 \times 2 \times 3 \times 4 \times 5 = 240$

2	12, 16, 20
2	6, 8, 10
3	3, 4, 5
4	1, 4, 5
5	1, 1, 5
	1, 1, 1

1, 1, 1 L.C.M. = 240

So, the smallest number which will be divided by 16, 12 and 20 leaves no remainder is 240

10) Rohit distributes toffees to his friends on his birthday. If he gives 5, 10 or 12 to each, he is left with no toffees. What is the least number of toffees ~~the L.C.M. of~~ he should buy?

Ans: The L.C.M. of 5, 10, 12 = $5 \times 2 \times 3 \times 2 = 60$

5 | 5, 10, 12

2 | 1, 2, 12

3 | 1, 1, 6

2 | 1, 1, 2

1, 1, 1

L.C.M = 60

So, the least number of toffees he should buy is 60.