

Revision Ex - 8

1) find the HCF of:-

(i) 108, 288 and 420

Ans-

2	108, 288, 420
2	54, 144, 210
3	27, 72, 105
	9, 24, 35

HCF - $2 \times 2 \times 3 = 12$

36, 54 and 138

(ii) ~~108, 288 and 420~~

Ans-

2	36, 54, 138
3	18, 27, 69
	6, 9, 23

HCF - $2 \times 3 = 6$

2) find the L.C.M of :-

72, 80 and 252

(i) ~~108, 288 and 420~~

Ans-

2	72, 80, 252
2	36, 40, 126
2	18, 20, 63
3	9, 10, 63
3	3, 10, 21
	1, 10, 7

Lcm - $2 \times 2 \times 2 \times 3 \times 3 \times 1 \times 10$
= 5040

(ii) 48, 66 and 120

$$\begin{array}{r} \text{Ans - } 2 \overline{) 48, 66, 120} \\ 2 \overline{) 24, 33, 60} \\ 3 \overline{) 12, 33, 30} \\ 2 \overline{) 4, 11, 10} \\ 2, 11, 5 \end{array}$$

$$\begin{aligned} \text{LCM} &= 2 \times 2 \times 3 \times 2 \times 2 \times 11 \times 5 \\ &= 2640 \end{aligned}$$

3 state true or false (Give an example in support of your answer in each case:-

(i) HCF of two prime numbers is 1.

Ans - True (5 and 11 are two and their HCF is 1)

(ii) HCF of two co-prime numbers is 1

Ans - True