

Q) Using Euclid's algorithm, find the largest number that divides 1251, 9377 and 15628 leaving remainders 1, 2 and 3 respectively. CASE - 2019 HCF
LCM

Solution:

Since, 1, 2 and 3 are the remainders of 1251, 9377 and 15628 numbers.

Thus, after subtracting these remainders from the no.'s we have the numbers.

$$1251 - 1 = 1250, \quad 9377 - 2 = 9375, \quad 15628 - 3 = 15625$$

Now, we have to find largest no. that divides 1250, 9375 & 15625.

So, Required no. = HCF of (1250, 9375, 15625).

By using Euclid's algorithm -