

**Find the largest number which exactly divides 280 and 1245 leaving remainders 4 and 3, respectively.**

**Solution:**

$$280 - 4 = 276$$

$$1245 - 3 = 1242$$

The largest number is the HCF of 276 and 1242

By Euclid's division algorithm

$$1242 = 276 \times 4 + 138$$

$$276 = 138 \times 2 + 0$$

$$\text{HCF} = 138$$

$$\text{Required number} = 138$$