## CBSEASSISTANCE.COM

## REAL NUMBERS <br> SOLUTION 19

Find the greatest number that divides 445,572 and 699 leaving remainders 4,5 and 6 respectively.

## Solution:

$445-4=441$
$572-5=567$
$699-6=693$
The greatest number is the HCF of 441,567 and 693
By Euclid's division algorithm
$567=441 \times 1+126$
$441=126 \times 3+63$
$126=63 \times 2+0$
HCF of 567 and $441=63$
By Euclid's division algorithm
$693=63 \times 11+0$
HCF of 693 and $63=63$
Required number $=63$

