## CBSEASSISTANCE.COM

## REAL NUMBERS <br> SOLUTION 18

What is the largest number that divides 626,3127 and 15628 and leaves remainders of $\mathbf{1 , 2} 2$ and 3 respectively?

## Solution:

$626-1=625$
$3127-2=3125$
$15628-3=15625$
By Euclid's division algorithm
$3125=625 \times 5+0$
HCF of 625 and $3125=625$
By Euclid's division algorithm
$15625=625 \times 25+0$
HCF of 625 and $15625=625$
Required number $=625$

