## CBSEASSISTANCE.COM

## REAL NUMBERS <br> SOLUTION 26

144 cartons of Coke Cans and 90 cartons of Pepsi Cans are to be stacked in a canteen. If each stack is of the same height and is to contain cartons of the same drink, what would be the greatest number of cartons each stack would have?

## Solution:

The greatest number of cartons each stack would have is the HCF of 144 and 90.
By Euclid's Division Algorithm
$144=90 \times 1+54$
$90=54 \times 1+36$
$54=36 \times 1+18$
$36=18 \times 2+0$
$\mathrm{HCF}=18$
$\therefore$ Number of cartons each stack would have $=18$

