Answer on Question#38792 – Math – Other

Number lying between 700 and 1100 which are divisible by 9,12 and 21

Solution:
Any number divisible by 9, 12 and 21 must have tall the factors of each:
$$9 = 3 \cdot 3$$
$$12 = 2 \cdot 2 \cdot 3$$
$$21 = 3 \cdot 7$$
$$\text{LCM} = 2 \cdot 2 \cdot 3 \cdot 3 \cdot 7 = 252$$
Multiples of 252 greater than 700 and less than 1100: 756 and 1008
Answer: 756 and 1008.