# Problem of the Week Problem E <br> Number Crunching 

While waiting for the bus one day, Leo divided numbers on his calculator. He noticed that when 44000 is divided by 18 , the remainder is 8 . He then noticed that the remainder is also 8 when 44000 is divided by 24 , and also when 44000 is divided by 39 . Leo then set out to find other numbers that had the same remainder (not necessarily 8 ), when divided by 18,24 , and 39 .
How many five-digit positive integers have the same remainder when divided by 18,24 , and 39 ?


