What is the tens digit in the sum

$7! + 8! + 9! + \cdots + 2006!$?

We know that $10!$ and all higher terms are multiples of 100 (since they include the product $2 \times 5 \times 10 = 100$) So the tens digit of the whole sum will be the tens digit of

$$7! + 8! + 9! = 5040(1 + 8 + 8 \times 9)$$

$$= 5040 \times 81$$

We have $40 \times 81 = 3240$ so the tens digit is a (4)