

Weekly Challenges (21.05.13)

1. What is the *sum of digits* of the number $4^{1013} \times 5^{2013}$?

Ans: 20

2. The number $n!$, where n is a natural number, can be represented by $n \times (n-1) \times (n-2) \times \dots \times 3 \times 2 \times 1$.

For example, $6! = 6 \times 5 \times 4 \times 3 \times 2 \times 1$.

Given that $S = 1! + 2! + 3! + \dots + 2011! + 2012! + 2013!$, find the *tens digit* in the number S .

Ans: 1