1. Compute $(1 + 2 + 3 + \cdots + 98 + 99) \div (.01 + .02 + .03 + \cdots + .98 + .99)$.
2. Find the product of the even multiples of 5 that are greater than 1 and less than 49.
3. Compute $1001 \times 1001 - 999 \times 999$.
4. What is the units digit of 82 to the 22nd power?