

1. Let $N = 20 \cdot 30 \cdot 50 \cdot 70 \cdot 90 \cdot 110 \cdot 130$. What is the smallest prime number that is not a factor of N ?
2. How many perfect squares are there between 2 and 140?
3. How many zeros does $(30!) \div (4 \times 5!)$ end in?
4. What is the units digit of $[7^{15}]^3$?