1. What are all the prime numbers up to 100 ?
2. Is $n^{2}+n+41$ a prime number for every $n$ ?
3. Is $2^{n}-1$ always a prime number?
4. Is $(2 \times 5 \times 7 \times 11 \times 13)+1$ a prime?
5. How many prime numbers are there?
6. Suppose $A$ and $B$ are natural number. Let $a$ be remainder of $A$ divided by $n$ and let $b$ be the remainder of $B$ divided by $n$. Show that the remainder of $A \times B$ divided by $n$ is equal to the remainder of $a \times b$ divided by $n$.
7. Is $26+31^{5}$ divisible by 29 ?
8. Find the remainder of $9^{2000}$ divided by 80 .
9. Show that if $n$ is divisible by 3 , then the sum of digits of $n$ is also divisible by 3 .
10. Come up divisibility rules for 5,9 and 11 .
