## RSA - Rivest, Shamir and Alderman

Key Size	1024 - 4096
Speed	~ factor of 106 cycles / operation
Mathematical Foundation	Prime number theory

Most widely used to secure network traffic

Adopted in 1977

## Computational Complexity

## Easy problems with prime numbers

- Generating a prime number p
- Addition, multiplication, exponentiation
- Inversion, solving linear equations

## Hard problem with prime numbers

• Factoring primes e.g. given n find p and q such that n = p. q