## 1T352: Information Assurance & Security Assignment 2

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Step 1:- choose p and q, p=17, q=29
Step 2: n = px q = 17x 29 = 493
Step 3:- A = (p-1) (q-1) = 16 x 28 = 448
Step 4: E=5, 1 < E < A, g < d (E, A)=1
Step 5:- D = 269, 1 CD < A, DE-1 = multiple of A
message encryption.
               Numbers assigned
1024 7776
               Raise to E=5
                 Divide by n= 493 and find remainder
 38 381
Encrypted message = 38 381
menage decryption
  38 381
  38<sup>269</sup> 381<sup>269</sup> Raise to D = 269
              Divide by n = 493
Decrypted menage = CH
```