Task T2

T2: Encrypt and Decrypt the Number 4

1: Encryption:

1. Use the private key

   - k=3

2. First, determine the public key by looking up M1(k):

   - M1(3)=1

3. Now, to encrypt the number 4, find M2(M1(k),p)=M2(1,4):

   - M2(1,4)=2

4. The encrypted result of 4 is 2.