

Let $k_{pub} = (n, e) = (25\,021, 3)$

1. Pick an integer an integer $x \in \mathbb{Z}_n$ to represent the plaintext and encrypt it by

$$y = e_{k_{pub}}(x) \equiv x^e \pmod{n}$$

2. Write your ciphertext on the board
3. Try to decrypt the ciphertexts from other students

Fill out the following tables

1.

p	3	5	7	11	13
$\phi(p)$					

Do you notice a general pattern?

2.

n	6	10	15	21	35
$\phi(n)$					

Do you notice a general pattern?