- 1. Let n = 7
 - (a) What are the possible orders for elements in \mathbb{Z}_n^* ?
 - (b) Fill in the following table:

а	a ⁿ	mod n
1		
2		
:		
n-1		

- 2. Repeat #1 for n = 11
- 3. Repeat #1 for n = 15

- 4. Let $n = 10 \ 116 \ 848 \ 611$
 - (a) Compute 17 948 389ⁿ mod n What does this tell you about the primality of n?
 - (b) Compute $2^n \mod n$ What does this tell you about the primality of n?
- 5. Let n = 329
 - (a) Is *n* prime or composite?
 - (b) Find a witness for the compositeness of *n*
- 6. Repeat #5 for n = 561