## **RSA Worksheet**

Prime_1	Prime_2	Public Encryption	Private Decryption
		Exponent	Exponent
2	3	5	1
17	5	13	4
5	7	11	1
7	11	13	6
13	3	17	10
3	5	11	2
5	7	13	2

## Part 1 - create your encryption and decryption keys

1. Pick a row in the table, then create an encryption key and decryption key.

## Part 2 - use your partner's encryption key and exponent to send a message

- 1. Find a partner. Swap Public Encryption Keys and Exponents.
- 2. Encode a message to your partner, using your partner's public encryption key and exponent. Send a single letter converted to a number using the ASCII table.

## Part 3 – decrypt the message from your partner using your private decryption exponent and private decryption key

Decrypted Message =		۸	%		=
	Message		Private Decryption Exp	Private Decryption Key	

Part 4 - Check! Did you and your partner get the intended message?