

# Scottish Gaelic Alphabet Ciphering

Letter	Space	A	B	C	D	E	F	G	H	I	L	M	N	O	P	R	S	T	V
Index	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

Text to be Ciphered: "THA AN AIMSIR TETH"

$a=5, b=7$

Equation:  $f(x) = (ax+b) \bmod(n)$

$a, b$  are keys,  $n$  is length of sequence symbols

So here  $a=5, b=7, n=19$

So equation:  $f(x) = (5x+7) \bmod(19)$

Plain Text	T	H	A	Space	A	N	Space	A	I	M	S	I	R	Space	T	E	T	H
X	17	8	1	0	1	12	0	1	9	11	16	9	15	0	17	5	17	8
$5x+7$	92	47	12	7	12	67	7	12	52	62	87	52	82	7	92	32	92	47
$(5x+7) \bmod(19)$	16	9	12	7	12	10	7	12	14	5	11	14	6	7	16	13	16	9
Cipher Text	S	I	N	G	N	L	G	N	P	E	M	P	F	G	S	O	S	I

Cipher text :

"SINGNLGNPEMPFGSOSI"