

The following tables might be useful during the event.

	A	B	C	D	E	F	G	H	I	J	K	L	M
A, B	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
C, D	O	P	Q	R	S	T	U	V	W	X	Y	Z	N
E, F	P	Q	R	S	T	U	V	W	X	Y	Z	N	O
G, H	Q	R	S	T	U	V	W	X	Y	Z	N	O	P
I, J	R	S	T	U	V	W	X	Y	Z	N	O	P	Q
K, L	S	T	U	V	W	X	Y	Z	N	O	P	Q	R
M, N	T	U	V	W	X	Y	Z	N	O	P	Q	R	S
O, P	U	V	W	X	Y	Z	N	O	P	Q	R	S	T
Q, R	V	W	X	Y	Z	N	O	P	Q	R	S	T	U
S, T	W	X	Y	Z	N	O	P	Q	R	S	T	U	V
U, V	X	Y	Z	N	O	P	Q	R	S	T	U	V	W
W, X	Y	Z	N	O	P	Q	R	S	T	U	V	W	X
Y, Z	Z	N	O	P	Q	R	S	T	U	V	W	X	Y

AAAAA	A	ABBAA	N
AAAAB	B	ABBAB	O
AAABA	C	ABBBA	P
AAABB	D	ABBBB	Q
AABAA	E	BAAAA	R
AABAB	F	BAAAB	S
AABBA	G	BAABA	T
AABBB	H	BAABB	U/V
ABAAA	I/J	BABAA	W
ABAAB	K	BABAB	X
ABABA	L	BABBA	Y
ABABB	M	BABBB	Z

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Z	Y	X	W	V	U	T	S	R	Q	P	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A

1	3	5	7	9	11	15	17	19	21	23	25
1	9	21	15	3	19	7	23	11	5	17	25

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## Frequency Table of English letters:

E - 12.51%	S - 6.54%	C - 3.06%	G - 1.96%	K - 0.67%
T - 9.25%	R - 6.12%	U - 2.71%	W - 1.92%	X - 0.19%
A - 8.04%	H - 5.49%	M - 2.53%	Y - 1.73%	J - 0.16%
O - 7.60%	L - 4.14%	F - 2.30%	B - 1.54%	Q - 0.11%
I - 7.26%	D - 3.99%	P - 2.00%	V - 0.99%	Z - 0.09%
N - 7.09%				

## Frequency Table of Spanish letters:

E - 14.08%	I - 5.98%	M - 3.08%	Y - 1.09%	Z - 0.47%
A - 12.16%	L - 5.24%	P - 2.89%	V - 1.05%	Ñ - 0.17%
O - 9.20%	D - 4.67%	B - 1.49%	G - 1.00%	X - 0.14%
S - 7.20%	T - 4.60%	H - 1.18%	F - 0.69%	K - 0.11%
N - 6.83%	U - 4.69%	Q - 1.11%	J - 0.52%	W - 0.04%
R - 6.41%	C - 3.87%			

For the purposes of cryptograms it is customary to treat n and ñ as distinct letters, but a and á are the same letter. Likewise for e and é, and i and í. In other words, all the accent marks get amputated when working with cryptograms. Also, while some older Spanish dictionaries consider ch, ll, and rr, to be their own letters—this has fallen out of modern usage. Accordingly, “burro” is considered as five letters: “b-u-r-r-o” and not as four letters “b-u-rr-o.”

## Morse Code:

A •-	F ••-	K -•-	P •--•	U ••-			
B -•••	G --•	L •-••	Q --•-	V •••-			
C -•-•	H ••••	M --	R •-•	W •--			
D -••	I ••	N -•	S •••	X -••-			
E •	J •---	O ---	T -	Y -•---			
				Z ---••			
0 ----	2 ••---	4 ••••-	6 -••••	8 ----••			
1 •----	3 •••--	5 •••••	7 ---•••	9 ----•			
• E	- T	-• N	-- M	-•• D	-•- K	-•• G	--- O
•• I	•- A	•-• R	•-- W	•--• P	•--- J		
••• S	••- U	••-• F	•-•• L	-••• Z	-•-• Q		
•••• H	•••- V	-•-• C	-•-- Y	••••- 4			
-••• B	-••- X	••--- 2	•••-- 3	----• 9			
---- 0	•---- 1	--•• 7	---•• 8				
•••• 5	-••• 6						

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