North Carolina Science Olympiad — Code Busters Spanish

2016-2017

Frequency Table of Spanish letters:

E	14.08%	I	5.98%	M	3.08%	Y	1.09%	Z	0.47%
Α	12.16%	L	5.24%	P	2.89%	V	1.05%	$\widetilde{\mathrm{N}}$	0.17%
0	9.20%	D	4.67%	В	1.49%	G	1.00%	X	0.14%
S	7.20%	Т	4.60%	Н	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%	С	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."

School	\mathbf{V}	IV1	JV2	IV3
SCHOOL	v	JVI	JVZ	JVJ

1) [250 Points] Solve this Spanish Cryptogram which has the word PASA twice.

SXRX ZOGO ZXM OJFX, ZDMX JX EQD WX ZOGO SOCYVDW DG ZXM

OJFX.

	Α	В	U	D	E	F	G	H	Ι	J	K	L	M	N	Ñ	0	P	Q	R	ន	T	ט	٧	W	X	Y	Z
Freq			1	4	1	2	3			3			3			7		1	1	2			1	2	9	1	5

2) [250 Points] Solve this Spanish Cryptogram which ends with the word TIERRA.

GUIJVI JAQ RPRQ VI TUQ VQJYVTTUQ D JAQ LKVQ QRMYV TU

JKVYYU.

	Α	В	U	D	E	F	Ü	Н	I	J	K	L	M	N	Ñ	0	P	Q	R	ន	T	ט	٧	W	X	Y	Z
Freq	2			1			1		3	5	2	1	1				1	8	3		4	5	7			4	

3) [250 Points] Solve this Spanish Cryptogram which has the word SABER in it.

CK FK ZUOERSK HBQB UBDZQ PBU, USFK HBQB SVFKQBQ PZFKU.

	Α	В	C	D	E	F	ъ	Н	I	Ъ	K	L	M	N	Ñ	0	P	Q	R	ធ	Т	ט	٧	W	X	Y	Z
Freq		7	1	1	1	4		2			6					1	2	5	1	3		5	1				3

4) [250 Points] Solve this Spanish Cryptogram which talks about books.

DQÑ ZCQMSYB ATWCXB YM YA IPMSX Ñ ZCQMSY IPMSXB YM AXB

ATWCXB.

	Α	В	U	D	E	F	Ъ	Н	I	J	K	L	M	N	Ñ	0	P	Q	R	ធ	T	ט	٧	W	X	Y	Z
Freq	4	5	4	1					2				6		2		2	3		4	2			2	5	5	2

School	V	JV1	JV2	JV3
Semoor	•		0 1 2	0 1 2

5) [250 Points] Solve this Spanish Cryptogram which has the word QUIEN in it.

PMZNZJD TP US CZTD D WSZPJ PMZNZJD US HEJXZHD.

	A	В	C	D	E	F	G	Н	I	Ъ	K	L	M	N	Ñ	0	P	Q	R	ន	Т	ט	V	W	x	Y	Z
Freq			1	5	1			2		4			2	2			4			3	2	2		1	1		7

6) [250 Points] Solve this Spanish Cryptogram which has the word MEJORES in it.

GW CKJ DNLHUW UKIK LA UKFKBW VMKGBW LA RMDMIW DNLGL

HLEWILF WUWIDMGNBKBLF.

	A	В	ŋ	Р	E	F	G.	Н	I	J	K	L	M	N	Ñ	0	P	Q	R	S	T	IJ	٧	M	X	Y	Z
Freq	2	4	1	4	1	3	4	2	4	1	7	8	4	3					1			4	1	8			

School	V JV1	IV2	IV3
SCHOOL	V J V I	JVZ	J V .

7) [250 Points] Solve this Spanish Cryptogram which has the Spanish word for friend in it twice.

AY SZQVH YH BI SÑABF ÑAB RB XABYRS IAI SFBVTQSI M IAI

JBYSI, AY SZQVH BI SÑABF ÑAB FSI BIXAXOS, IAKTB M

SXHYIBPS.

	Α	В	C	D	E	F	G	н	I	J	K	L	M	N	Ñ	0	P	Q	R	s	T	U	v	W	x	Y	Z
Freq	11	13				4		4	12	1	1		2		4	1	1	3	2	12	2		3		4	6	2

8) [250 Points] Solve this Spanish Cryptogram which ends with the word AQUI.

MFCRKFSWP USWGYA KFW IWMWNSUWN FI CGSHA, ZA WNUCPW CKFS.

	A	В	ŋ	О	Ε	F	G	н	I	J	K	L	M	N	Ñ	0	P	Q	R	ន	Т	ם	٧	M	Х	Y	Z
Freq	3		4			5	2	1	2		3		2	3			2		1	5		3		8		1	1

9) [250 Points] Solve this Spanish Cryptogram which has the phrase LA VIDA in it.

FD RSWDL SP FO ÑVHO FD SPBYSPILOM MVP CONSLFD NYMBOH.

	Α	В	U	D	E	F	G	Н	I	J	K	L	M	N	Ñ	0	P	Q	R	ន	T	ט	٧	W	Х	Y	Z
Freq		2	1	4		4		2	1			3	3	2	1	5	4		1	5			2	1		2	

10) [250 Points] Solve this Spanish Cryptogram which has the word UNA in it three times.

UF ZERNDNSWEF NSIDF CSF RUVD J CSF PFU XENDOF NL CSF

VBESEVS.

	Α	В	U	D	E	F	G	H	I	J	K	L	M	N	Ñ	0	P	Q	R	ន	T	ט	٧	W	X	Y	Z
Freq		1	3	4	5	8			1	1		1		5		1	1		2	7		3	3	1	1		1

School	\mathbf{V}	IV1	JV2	IV3
SCHOOL	v	JVI	JVZ	J V J

11) [250 Points] Solve this Spanish Cryptogram which ends with the word PUDO.

KSFYL XY GBFH, YQ WGDKSY SL BFH FLXYLXG QYD RGIG XS C LG

WSBG.

	Α	В	C	D	E	F	ъ	H	I	J	K	Ь	M	N	Ñ	0	P	Q	R	ន	T	ט	V	W	X	Y	Z
Freq		3	1	2		4	7	2	1		2	5						2	1	5				2	4	6	

12) [250 Points] Solve this Spanish Cryptogram. The first word is HOY.

UFP MK QE IQME ORL DLSL GMEMS QE ASLE ORL.

	Α	В	С	D	E	F	G	н	I	J	K	L	M	N	Ñ	0	P	Q	R	s	T	ט	V	W	x	Y	Z
Free	1			1	5	1	1		1		1	5	4			2	1	3	2	3		1					

13) [250 Points] Solve this Spanish Cryptogram. The forth from the last word is **TOMAR**.

DK GHDOROLKL HF EBK LHROFOXB ZEH WHBHSXF ZEH WXSKÑ WXLXF

DXF LOKF.

	Α	В	C	D	E	F	G	H	I	J	K	L	M	N	Ñ	0	P	Q	R	ន	T	ט	٧	W	X	Y	Z
Freq		3		3	3	6	1	7			5	5			1	5			2	2				3	6		2

14) [250 Points] Solve this Spanish Cryptogram which has the word FUERA in it somewhere. Be careful as it has both \tilde{N} and N present in the encoded text.

GYQY WY OÑV OÑSVAVD, VH WN CSQN VDGN PÑVAN QV GÑ UYHN QV

MYHPYAG.

		Α	В	C	Ω	E	F	G	H	I	J	K	L	M	N	Ñ	0	Р	Q	R	S	T	U	٧	W	X	Y	Z
Fre	eq	3		1	2			4	3					1	5	4	2	2	4		2		1	8	2		6	