

Agent ID

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Ciphertext Decoder Worksheet

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Matching first group means correct OTP

For other groups, add columns (digit by digit) without carrying for numbers over 9.
Example: $9 + 6 = 5$ and not 15

Ciphertext:

(+) OTP Key:

(=) Plain text:

Convert plain text to letters, numbers, and words from the Checkerboard & Code Book

Ciphertext:

(+) OTP Key:

(=) Plain text:

Ciphertext:

(+) OTP Key:

(=) Plain text:

Ciphertext:

(+) OTP Key:

(=) Plain text:

Ciphertext:

(+) OTP Key:

(=) Plain text:

Ciphertext:

(+) OTP Key:

(=) Plain text:

DESTROY THIS SHEET AFTER USE

Updated: 2020-03-07

Ciphertext:																														
(+) OTP Key:																														
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INSTRUCTIONS

1. The numbers station transmission will include repeated groups of numbers (313 313 313 11111 11111 15907 15907...) Only enter each group once (313 11111 15907...) The repetition makes it easier to enter the digits on the worksheet.
2. The first number is the unencrypted agent id (i.e. receiver's callsign). It determines if the message is meant for you.
3. The first group of 5 digits is unencrypted and is copied directly from the sender's one-time pad (OTP). Enter in the first area (shaded) marked "Ciphertext".
4. Enter the remaining ciphertext digits from the transmission.
5. Find the sheet on the receiver's OTP with first 5 digits that match shaded area. This verifies you have the correct codes.
6. On the "OTP Key" line, copy each digit from the OTP. Only enter the number of digits for the length of the ciphertext. Then destroy the sheet from the OTP.
7. Skipping the first group, add each column (digit by digit) but don't carry if the result is larger than 9. Example: $9 + 6 = 5$ and not 15. This gives you the "Plain text" value.
8. Using the checkerboard and code book write the letters, numbers, and words on the lines provided.
9. Congratulations Agent! You have decoded the message. Use the verify code with the Number Spies Alexa Skill.

DESTROY THIS SHEET AFTER USE

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CODE	A	E	I	N	O	T	NS-37v		
0	1	2	3	4	5	6			
B	C	D	F	G	H	J	K	L	M
70	71	72	73	74	75	76	77	78	79
P	Q	R	S	U	V	W	X	Y	Z
80	81	82	83	84	85	86	87	88	89
FIG	.	:	'	/	+	-	=	REQ	SPC
90	91	92	93	94	95	96	97	98	99

NOTES:

- "CODE" - Code book prefix. 3-digit code to follow
- "FIG" or "FIGURE" - used before AND after a number. Each digit is repeated 3 times to exclude errors.
- 91 - PERIOD (1 ends sentence; 2 ends message) or DECIMAL POINT
- 92 - COLON
- 93 - APOSTROPHE, COMMA, OR QUOTE (based on context)
- 94 - SLASH (i.e. forward slash)
- 95 - PLUS
- 96 - MINUS
- 97 - EQUAL
- "REQ" or "REQUEST" - indicates a question

CODE BOOK

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000	ABORT	253	DECODE	505	MILITARY	758	STREET
019	ACCEPT	262	DELAY	514	MONEY	767	SUBWAY
028	ACCESS	271	DIFFICULT	523	MONTH	776	SUCCESS
037	ADDRESS	280	DOCUMENT	532	MORNING	785	SUPPLY
046	AFFIRMATIVE	299	ENCODE	541	MORSE	794	SUPPORT
055	AGENT	307	EVENING	550	NEGATIVE	802	TELEPHONE
064	AIRPLANE	316	EXECUTE	569	NIGHT	811	TODAY
073	AIRPORT	325	FACTORY	578	OBSERVATION	820	TOMORROW
082	ANSWER	334	FAILED	587	PASSPORT	839	TRAIN
091	AUTHORITY	343	FERRY	596	PERSON	848	TRANSFER
109	BETWEEN	352	FLIGHT	604	PHOTOGRAPH	857	TRANSMIT
118	BORDER	361	FREQUENCY	613	POSITIVE	866	TRAVEL
127	BUILDING	370	HARBOUR	622	POSSIBLE	875	TRUCK
136	CANCEL	389	HELICOPTER	631	POWER	884	UNABLE_TO
145	CHANGE	398	HIGHWAY	640	PRIORITY	893	URGENT
154	CIVILIAN	406	IDENTITY	659	PROBLEM	901	VERIFY
163	COMPROMISE	415	IMMEDIATE	668	QUESTION	910	WEEK
172	COMPUTER	424	IMPOSSIBLE	677	RADIO	929	WITHIN
181	CONFIRM	433	INFORMATION	686	RECEIVE	938	YESTERDAY
190	CONTACT	442	INSTRUCTIONS	695	RENDEZVOUS	947	DISREGARD_MSG_FROM
208	COORDINATE	451	LOCATE	703	REPEAT	956	DO_NOT_ANSWER
217	COUNTRY	460	LOCATION	712	RESERVATION	965	FORWARD_THIS_MSG_TO
226	COVERT	479	MAIL	721	ROUTINE	974	REPEAT_YOUR_MSG_FROM
235	CURRENT	488	MEETING	730	SATELLITE	983	WEBSITE
244	DANGER	497	MESSAGE	749	SHIP	992	WHAT3WORDS ///