Cryptography 101 One digit addition base 10 calculator-algebra.org

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$$1+2 = 2+2 = 2+5 = 9+2 = 7+5 = 9+7 = 0+9 = 9+7$$

$$1+2 = ?$$
 $2+2 =$
 $2+5 =$
 $9+2 =$
 $7+5 =$
 $9+7 =$
 $0+9 =$

$$1+2 = 3$$
 $2+2 = 2+5 = 9+2 = 7+5 = 9+7 = 0+9 = 3$

$$1+2 = 3$$

 $2+2 = ?$
 $2+5 = 9+2 = 7+5 = 9+7 = 0+9 = 9+7$

$$1+2 = 3$$

 $2+2 = 4$
 $2+5 = 9+2 = 7+5 = 9+7 = 0+9 = 9+7$

$$1+2 = 3$$

 $2+2 = 4$
 $2+5 = ?$
 $9+2 = 7+5 = 9+7 = 0+9 = 0$

$$1+2 = 3$$

 $2+2 = 4$
 $2+5 = 7$
 $9+2 = 7$
 $7+5 = 9+7 = 1$
 $9+9 = 1$

$$1+2 = 3$$

 $2+2 = 4$
 $2+5 = 7$
 $9+2 = ?$
 $7+5 = 9+7 = 0+9 = 9$

$$1+2 = 3$$
 $2+2 = 4$
 $2+5 = 7$
 $9+2 = 11$
 $7+5 = 9+7 = 0+9 = 0$

$$1+2 = 3$$

 $2+2 = 4$
 $2+5 = 7$
 $9+2 = 11$
 $7+5 = ?$
 $9+7 = 0$
 $0+9 = 1$

$$1+2 = 3$$
 $2+2 = 4$
 $2+5 = 7$
 $9+2 = 11$
 $7+5 = 12$
 $9+7 = 0+9 = 12$

$$1+2 = 3$$
 $2+2 = 4$
 $2+5 = 7$
 $9+2 = 11$
 $7+5 = 12$
 $9+7 = ?$
 $0+9 =$

$$1+2 = 3$$
 $2+2 = 4$
 $2+5 = 7$
 $9+2 = 11$
 $7+5 = 12$
 $9+7 = 16$
 $0+9 =$

$$1+2 = 3$$
 $2+2 = 4$
 $2+5 = 7$
 $9+2 = 11$
 $7+5 = 12$
 $9+7 = 16$
 $0+9 = ?$

$$1+2 = 3$$
 $2+2 = 4$
 $2+5 = 7$
 $9+2 = 11$
 $7+5 = 12$
 $9+7 = 16$
 $0+9 = 9$

$$\begin{array}{rrr}
 1 + 3 & = \\
 4 + 7 & = \\
 2 + 8 & = \\
 9 + 8 & = \\
 5 + 5 & = \\
 \end{array}$$

Add the one-digit numbers.

$$1+3 = 4+7 = 2+8 = 9+8 = 5+5 =$$

+	0	- 1	2	3	4	5	6	7	8	9
0										
1										
2										
3	П									
4										
5	Г									
6										
7										
8										
9										

Add the one-digit numbers.

$$1+3 = ?$$
 $4+7 =$
 $2+8 =$
 $9+8 =$
 $5+5 =$

+	0	1	2	3	4	5	6	7	8	9
0										
1				?						
3										
3										
4										
5										
6										
7										
8										
9										

Add the one-digit numbers.

$$1+3 = 4$$

 $4+7 =$
 $2+8 =$
 $9+8 =$
 $5+5 =$

+	0	1	2	3	4	5	6	7	8	9
0										
1				4						
2										
3										
4										
5										
6										
7										
8										
9										

Add the one-digit numbers.

$$1+3 = 4$$

 $4+7 = ?$
 $2+8 = 9+8 = 5+5 = 9$

+	0	1	2	3	4	5	6	7	8	9
0										
1				4						
2										
3										
4								?		
5										
6										
7										
8										
9										

Add the one-digit numbers.

$$1+3 = 4$$
 $4+7 = 11$
 $2+8 = 9+8 = 5+5 =$

+	0	1	2	3	4	5	6	7	8	9
0										
1				4						
2										
3										
4								11		
5										
6										
7										
8										
9										

Add the one-digit numbers.

$$1+3 = 4$$

 $4+7 = 11$
 $2+8 = ?$
 $9+8 = 5+5 =$

+	0	1	2	3	4	5	6	7	8	9
0										
1				4						
2									?	
3										
4								11		
5										
6										
7										
8										
9										

Add the one-digit numbers.

$$1+3 = 4$$
 $4+7 = 11$
 $2+8 = 10$
 $9+8 = 5+5 = 10$

+	0	1	2	3	4	5	6	7	8	9
0										
1				4						
3									10	
4								11		
5										
6										
7										
8										
9										

Add the one-digit numbers.

$$1+3 = 4$$
 $4+7 = 11$
 $2+8 = 10$
 $9+8 = ?$
 $5+5 =$

+	0	1	2	3	4	5	6	7	8	9
0										
1				4						
3									10	
4								11		
5										
7										
8										
9									?	

Add the one-digit numbers.

$$1+3 = 4$$

 $4+7 = 11$
 $2+8 = 10$
 $9+8 = 17$
 $5+5 = 10$

+	0	1	2	3	4	5	6	7	8	9
0										
1				4						
2									10	
3										
4								11		
5										
6										
7										
8										
9									17	

Add the one-digit numbers.

$$1+3 = 4$$

 $4+7 = 11$
 $2+8 = 10$
 $9+8 = 17$
 $5+5 = ?$

+	0	1	2	3	4	5	6	7	8	9
0										
1				4						
2									10	
3										
4								11		
5						?				
6										
7										
8										
9									17	

Add the one-digit numbers.

$$1+3 = 4$$
 $4+7 = 11$
 $2+8 = 10$
 $9+8 = 17$
 $5+5 = 10$

+	0	1	2	3	4	5	6	7	8	9
0										
1				4						
2									10	
3										
4								11		
5						10				
6										
7										
8										
9									17	

Add the one-digit numbers.

$$1+3 = 4$$

 $4+7 = 11$
 $2+8 = 10$
 $9+8 = 17$
 $5+5 = 10$

+	0	1	2	3	4	5	6	7	8	9
0	?	?	?	?	?	?	?	?	?	?
1	?	?	?	4	?	?	?	?	?	?
2	?	?	?	?	?	?	?	?	10	?
3	?	?	?	?	?	?	?	?	?	?
4	?	?	?	?	?	?	?	11	?	?
5	?	?	?	?	?	10	?	?	?	?
6	?	?	?	?	?	?	?	?	?	?
7	?	?	?	?	?	?	?	?	?	?
8	?	?	?	?	?	?	?	?	?	?
9	?	?	?	? :	?:	?	? :	? :	17	?

Add the one-digit numbers.

$$1+3 = 4$$

 $4+7 = 11$
 $2+8 = 10$
 $9+8 = 17$
 $5+5 = 10$

+	0	1	2	3	4	5	6	7	8	9
0	0	1	2	3	4	5	6	7	8	9
1	1	2	3	4	5	6	7	8	9	10
2	2	3	4	5	6	7	8	9	10	11
3	3	4	5	6	7	8	9	10	11	12
4	4	5	6	7	8	9	10	11	12	13
5	5	6	7	8	9	10	11	12	13	14
6	6	7	8	9	10	11	12	13	14	15
7	7	8	9	10	11	12	13	14	15	16
8	8	9	10	11	12	13	14	15	16	17
9	9	10	11	12	13	14	15	16	17	18

Add the one-digit numbers.

	_				_	_			_	
+	0	1	2	3	4	5	6	7	8	9
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										

Add the one-digit numbers.

$$+\frac{3}{5}$$

$$3 + 5 = ?$$

+	0	1	2	3	4	5	6	7	8	9
0	Г									
1										
2										
3						?				
4										
5										
6										
7										
8										
9										

Add the one-digit numbers.

$$+\frac{3}{5}$$

$$3 + 5 = 8$$

+	0	1	2	3	4	5	6	7	8	9
0										
1										
2										
3						8				
4										
5										
6										
7										
8										
9										

Add the one-digit numbers.

$$+\frac{3}{5}$$

$$3 + 5 = 8$$

+	0	1	2	3	4	5	6	7	8	9
0										
1										
2										
3						8				
4										
5										
6										
7										
8										
9										

Add the one-digit numbers.

$$+\frac{3}{5}$$

+	0	1	2	3	4	5	6	7	8	9
0										
1										
2										
3						8				
5										
6										
7										
8										
9										

Add the one-digit numbers.

$$+\frac{3}{5}$$

+	0	1	2	3	4	5	6	7	8	9
0										
1										
2										
3						8				
4										
5										
6										
7										
8										
9										

Add the one-digit numbers.

$$+\frac{3}{5}$$

+	0	1	2	3	4	5	6	7	8	9
0										
1										
2										
3						8				
5										
6										
7							?			
8										
9										

Add the one-digit numbers.

$$+\frac{3}{5}$$

$$+\frac{1}{6}$$

$$7 + 6 = 13$$

+	0	1	2	3	4	5	6	7	8	9
0										
1										
2										
3						8				
4										
5										
6										
7							13			
8										
9										

Add the one-digit numbers.

$$+\frac{3}{5}$$

$$+\frac{1}{6}$$

$$7 + 6 = 13$$

+	0	1	2	3	4	5	6	7	8	9
0										
1										
2										
3						8				
4										
5										
6										
7							13			
8										
9										

Add the one-digit numbers.

$$+\frac{3}{5}$$

$$+\frac{1}{7}$$
 $+\frac{6}{3}$

$$7 + 6 = 13$$

+	0	1	2	3	4	5	6	7	8	9
0	П									
1										
2										
3						8				
4										
5										
6										
7							13			
8										
9										

Add the one-digit numbers.

$$+\frac{3}{5}$$

$$+\frac{1}{7}$$

+	0	1	2	3	4	5	6	7	8	9
0										
1										
2										
3						8				
4										
5										
6										
7							13			
8										
9										

Add the one-digit numbers.

$$+\frac{3}{5}$$

+	0	1	2	3	4	5	6	7	8	9
0	П									
1										
2										
3						8				
4										
5										
6										
7							13			
8										
9										

Add the one-digit numbers.

$$+\frac{3}{5}$$

$$+\frac{1}{6}$$

$$9 + 2 = ?$$

+	0	1	2	3	4	5	6	7	8	9
0										
1										
2										
3						8				
4										
5										
6										
7							13			
8										
9			?							

Add the one-digit numbers.

$$+\frac{3}{5}$$

$$+\frac{1}{6}$$

$$+\frac{1}{9}$$

$$9 + 2 = 11$$

+	0	1	2	3	4	5	6	7	8	9
0										
1										
2										
3						8				
5										
6										
7							13			
8										
9			11							

Add the one-digit numbers.

$$+\frac{3}{5}$$

$$+\frac{1}{7}$$

$$9 + 2 = 11$$

+	0	1	2	3	4	5	6	7	8	9
0										
1										
2										
3 4						8				
5										
6										
7							13			
8										
9			11							

Add the one-digit numbers.

$$+\frac{3}{5}$$

$$+\frac{1}{7}$$

$$9 + 2 = 11$$

+	0	1	1	2	3	4	5	6	7	8	9
0											
1											
2											
3							8				
4											
5											
6											
7								13			
8											
9				11							

Add the one-digit numbers.

$$+\frac{3}{5}$$

$$+\frac{1}{6}$$

$$+\frac{9}{2}$$

+	0	1	2	3	4	5	6	7	8	9
0										
1										
2										
3						8				
4										
5										
6										
7							13			
8										
9			11							

Add the one-digit numbers.

$$+\frac{3}{5}$$

$$+\frac{1}{6}$$

$$+\frac{1}{9}$$

+	0	1	2	3	4	5	6	7	8	9
0	Т									
1										
2										
3						8				
4										
5										
6										
7							13			
8										
9			11							

Add the one-digit numbers.

+	0	1	2	3	4	5	6	7	8	9
0	?	?	?	?	?	?	?	?	?	?
1	?	?	?	?	?	?	?	?	?	?
2	?	?	?	?	?	?	?	?	?	?
3	?	?	?	?	?	8	?	?	?	?
4	?	?	?	?	?	?	?	?	?	?
5	?	?	?	?	?	?	?	?	?	?
6	?	?	?	?	?	?	?	?	?	?
7	?	?	?	?	?	?	13	?	?	?
8	?	?	?	?	?	?	?	?	?	?
9	?	?	11	?	?	?	?	?	?	?

Add the one-digit numbers.

$$+\frac{3}{5}$$
 $+\frac{7}{6}$ $+\frac{1}{13}$

+	0	1	2	3	4	5	6	7	8	9
0	0	1	2	3	4	5	6	7	8	9
1	1	2	3	4	5	6	7	8	9	10
2	2	3	4	5	6	7	8	9	10	11
3	3	4	5	6	7	8	9	10	11	12
4	4	5	6	7	8	9	10	11	12	13
5	5	6	7	8	9	10	11	12	13	14
6	6	7	8	9	10	11	12	13	14	15
7	7	8	9	10	11	12	13	14	15	16
8	8	9	10	11	12	13	14	15	16	17
9	9	10	11	12	13	14	15	16	17	18