

# Irish Logarithms Animation

In 1909 [Percy E. Ludgate](#) proposed a programmable calculator which performed multiplications using a simplified kind of logarithm he called *index*, but it is better known as [Irish logarithm](#).

You can test his method by entering two numbers below, and hitting the "Go"-button. Note that the numbers should be consistent with the "base" setting!

11	x
10	
	=

unit	simple index no.
0	50
1	0
2	1
3	7
4	2
5	23
6	8
7	33
8	3
9	14

comp. index no.	partial product
0	1
1	2
2	4
3	8
4	16
5	32
6	64
7	3
8	6
9	12
10	24
11	48
12	-
13	-
14	9
15	18
16	36
17	72
18	-
19	-
20	-
21	27
22	54
23	5
24	10
25	20
26	40
27	-
28	81
29	-
30	15
31	30
32	-
33	7
34	14
35	28

Animation speed:  
intermediate ▾

Base:

2

8

10

16

36	56
37	45
38	-
39	-
40	21
41	42
42	-
43	-
44	-
45	-
46	25
47	63
48	-
49	-
50	0
51	0
52	0
53	0
54	-
55	-
56	35
57	0
58	0
59	-
60	-
61	-
62	-
63	-
64	0
65	-
66	49
<u>73</u>	0
<u>83</u>	0
<u>100</u>	0