

Day 8 (July 11, 2013)

Proportion of the grid that is filled with dots:

Size	Grid Dots	Grid Area	Proportion
1	1	1	1
2	3	4	0.75
3	7	9	0.77777778
4	11	16	0.6875
5	19	25	0.76
6	23	36	0.63888889
7	35	49	0.71428571
8	43	64	0.67187500
9	55	81	0.67901235
10	63	100	0.63
15	143	225	0.63555556
25	399	625	0.6384
50	1,547	2,500	0.6188
100	6,087	10,000	0.6087
500	152,231	250,000	0.608924
3,000	5,472,375	9,000,000	0.60804167
5,000	15,200,915	25,000,000	0.60803660
10,000	60,794,971	100,000,000	0.60794971
100,000	6,079,301,507	10,000,000,000	0.60793015
1,000,000	607,927,104,783	1,000,000,000,000	0.60792710

What is this number approaching?