Math file

Area size: 5x5

Possible objects:

C (Collect):

Either appear, or not appear.

Chance of appearing = 1.75% \* (Amount of empty blocks) \* (Offset factor)

Offset factor begin with 100%, and multiplied by a **constant**% for every previous C activated. However can’t go below 15%.

**Constant** was set to 60%.

If it will appear, it will appear in a random empty block and replace the symbol that’s supposed to land in that block.

## Math A

Result: Absolutely terrifying. Even a group of 1k rounds shows too many problems.

|  |  |  |  |
| --- | --- | --- | --- |
| 10000x | 1 | X100 | 1 |
| 5000x | 19 | X20 | 29 |
| 2500x | 200 | X10 | 700 |
| 1000x | 1500 | X5 | 4450 |
| 500x | 3500 | X3 | 12600 |
| 250x | 8000 | X2 | 28000 |
| 100x | 15000 |  |  |
| 50x | 20000 |  |  |
| 25x | 40000 |  |  |
| 10x | 80000 |  |  |
| 5x | 95000 |  |  |
| 2x | 220000 |  |  |
| 1x | 481000 |  |  |

## Math A2

Approach: rewrite the entire thing to make it much harder

Result: A bit too bad, Top 10 in a group of 1k only being 2175-5965.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Object | Per 10M | Total | Object | Per 10M | Total |
| 10000 | 3 | 9856600 | x100 | 2 | 143400 |
| 5000 | 47 |  | x20 | 28 |  |
| 2500 | 300 |  | x10 | 870 |  |
| 1000 | 1250 |  | x5 | 2700 |  |
| 500 | 5000 |  | x3 | 27800 |  |
| 250 | 15000 |  | x2 | 112000 |  |
| 100 | 45000 |  |  |  |  |
| 50 | 140000 |  |  |  |  |
| 25 | 400000 |  |  |  |  |
| 10 | 800000 |  |  |  |  |
| 5 | 1600000 |  |  |  |  |
| 2 | 2350000 |  |  |  |  |
| 1 | 4500000 |  |  |  |  |

## Math A2.1

Approach: A2 but with chance of getting multipliers.

Result: This time it’s 10k instead of 1k rounds.

Top one still only 5531, and #10 is only 2816.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Object | Per 10M | Total | Object | Per 10M | Total |
| 10000 | 3 | 9726600 | x100 | 2 | 273400 |
| 5000 | 47 |  | x20 | 28 |  |
| 2500 | 300 |  | x10 | 870 |  |
| 1000 | 1250 |  | x5 | 9700 |  |
| 500 | 5000 |  | x3 | 76800 |  |
| 250 | 15000 |  | x2 | 186000 |  |
| 100 | 45000 |  |  |  |  |
| 50 | 140000 |  |  |  |  |
| 25 | 400000 |  |  |  |  |
| 10 | 800000 |  |  |  |  |
| 5 | 1580000 |  |  |  |  |
| 2 | 2360000 |  |  |  |  |
| 1 | 4380000 |  |  |  |  |

## Math A2.2

Approach: I threw in more multi.

Result: in 10k rounds the highest is 8000, and a lot of top 10 rounds used 3-6 C symbols. Remember, In this version I made those C work like big bamboo or boss bear or razor ways where it collects from other C without removing them.

Also did I mention the avg result is like 250+? I just made the biggest RTP black hole ever.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Object | Per 10M | Total | Object | Per 10M | Total |
| 10000 | 3 | 9556600 | x100 | 2 | 443400 |
| 5000 | 47 |  | x20 | 28 |  |
| 2500 | 300 |  | x10 | 1270 |  |
| 1000 | 1250 |  | x5 | 12700 |  |
| 500 | 5000 |  | x3 | 96000 |  |
| 250 | 15000 |  | x2 | 333400 |  |
| 100 | 45000 |  |  |  |  |
| 50 | 140000 |  |  |  |  |
| 25 | 400000 |  |  |  |  |
| 10 | 800000 |  |  |  |  |
| 5 | 1500000 |  |  |  |  |
| 2 | 2350000 |  |  |  |  |
| 1 | 4300000 |  |  |  |  |

And I noticed this round.

1st Spin

["2", "2", "1000", "1", "2", "C", "5", "2", "1", "25", "2", "1", "5", "1", "5", "1", "25", "1", "1", "1", "1", "2", "2", "10", "2"]

Collect

["", "", "", "", "", "s1100", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", ""]

2nd Spin

["2", "2", "1000", "1", "2", "s1100", "C", "5", "2", "1", "25", "2", "1", "5", "1", "5", "1", "25", "1", "1", "1", "1", "2", "2", "10"]

Collect

["", "", "", "", "", "s1100", "s2198", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", ""]

3rd Spin

["250", "1", "1", "5", "2", "s1100", "s2198", "50", "5", "5", "1", "2", "5", "5", "5", "1", "10", "5", "5", "10", "2", "1", "5", "25", "2"]

Where the 1st spin and 2nd spin is too similar. Going to fix some bugs.

## Math A2.3

Approach: More high value coins but less multi (back to 2.5% total)

Changed 500x coin to 1/1250 (once per 50 board).

Result: avg result is now 273.24 still needs rework

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Object | Per 10M | =% per block | Total | Object | Per 10M | =% per block | Total |
| 10000 | 3 | 0.0000% | 8301000 | x100 | 2 | 0.0000% | 250000 |
| 5000 | 47 | 0.0005% |  | x20 | 43 | 0.0004% |  |
| 2500 | 450 | 0.0045% |  | x10 | 1155 | 0.0116% |  |
| 1000 | 1750 | 0.0175% |  | x5 | 14700 | 0.1470% |  |
| 500 | 8000 | 0.0800% |  | x3 | 57100 | 0.5710% |  |
| 250 | 23750 | 0.2375% |  | x2 | 177000 | 1.7700% |  |
| 100 | 65000 | 0.6500% |  |  |  |  |  |
| 50 | 151000 | 1.5100% |  |  |  |  |  |
| 25 | 375000 | 3.7500% |  |  |  |  |  |
| 10 | 875000 | 8.7500% |  |  |  |  |  |
| 5 | 151000 | 1.5100% |  |  |  |  |  |
| 2 | 2350000 | 23.5000% |  |  |  |  |  |
| 1 | 4300000 | 43.0000% |  |  |  |  |  |