Play 2021 Year Game

Play, Win and Get, a Prize!

archimedes

How to play:

For writing the number 2021 we use the digits 0, 1 and 2. The digit 2 is used 2 times. Using all 4 digits: 0, 1, 2 and 2 and any operations, try to write equations that have the numbers from 1 to 100 as the answer.

- Two twos, one one and one zero must be used for each mathematical equation
- Any of the following operations can be used: +, -, x, \div , $\sqrt{\text{(square root)}}$, $^{\land}$ (raise to a power), ! (factorial), and parentheses.
- Two or more digits can be combined to create multi-digit numbers such as 20, 21, 22, 102, 122 or 0.2 or 0.22



How to win:

There are three levels:

- 1. level A (grade 2-3) winner more than 10 numbers
- 2. level B (grades 4-5) winner more than 15 numbers
- 3. level C (grades 6+) winner more than 20 numbers

Play Year 2021 Game and win

ARCHIMEDES WATER BOTTLE FULL OF YOUR FAVORITE CANDIES!

What are your favorite candies?	
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Think of a good strategy!

Below you will find several examples for using 0, 1, 2, and 5

1 = (2 + 5) x 0 + 1	2 = (1 + 5) x 0 + 2	3 = 1 + 2 + 5 x 0	4 = 5 - 1 + 2 x 0	5 = 5 + (1 + 2) x 0
6 = 5 + 1 + 2 x 0	7 = 1 x 0 + 2 + 5	$8 = (5 - 1) \times 2 + 0$	9 =	10 = 5 x 2 + 1 x 0
11 = 5 x 2 + 1 + 0	12 = 12 + 5 x 0	13 =	14 =	15 = 15 + 2 x 0
46 =	47 = 50 - 2 - 1	48 =	49 = 50 - 2 + 1	50 =

Turn the page and find the table with 100 numbers to fill and have fun!

Do not forget to turn in your paper before January 31st, 2021.

Name:	_ Grade:
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Play 2021 Year Game

2 =	3 =	4 =	5 =
7 =	8 =	9 =	10 =
12 =	13 =	14 =	15 =
17 =	18 =	19 =	20 =
22 =	23 =	24 =	25 =
27 =	28 =	29 =	30 =
32 =	33 =	34 =	35 =
37 =	38 =	39 =	40 =
42 =	43 =	44 =	45 =
47 =	48 =	49 =	50 =
52 =	53 =	54 =	55 =
57 =	58 =	59 =	60 =
62 =	63 =	64 =	65 =
67 =	68 =	69 =	70 =
72 =	73 =	74 =	75 =
77 =	78 =	79 =	80 =
82 =	83 =	84 =	85 =
87 =	88 =	89 =	90 =
92 =	93 =	94 =	95 =
97 =	98 =	99 =	100 =
	7 = 12 = 17 = 22 = 27 = 32 = 37 = 42 = 47 = 52 = 57 = 62 = 67 = 72 = 77 = 82 = 87 = 92 =	7 = 8 = 12 = 13 = 17 = 18 = 22 = 23 = 27 = 28 = 32 = 33 = 37 = 38 = 42 = 43 = 47 = 48 = 52 = 53 = 57 = 58 = 62 = 63 = 67 = 68 = 72 = 73 = 77 = 78 = 82 = 83 = 87 = 88 = 92 = 93 =	7 = 8 = 9 = 12 = 13 = 14 = 17 = 18 = 19 = 22 = 23 = 24 = 27 = 28 = 29 = 32 = 33 = 34 = 37 = 38 = 39 = 42 = 43 = 44 = 47 = 48 = 49 = 52 = 53 = 54 = 57 = 58 = 59 = 62 = 63 = 64 = 67 = 68 = 69 = 72 = 73 = 74 = 77 = 78 = 79 = 82 = 83 = 84 = 87 = 93 = 94 =