

The New Year Challenge Problem

Solution:

Number	Presentation
1	$-2 - 0! - 2 + 6$
2	$-2 - 0 - 2 + 6$
3	$-2 + 0! - 2 + 6$
4	$2 \times 0 - 2 + 6$
5	$-2 - 0! + 2 + 6$
6	$2 \times 0 \times 2 + 6$
7	$-2 + 0! + 2 + 6$
8	$2 \times 0 + 2 + 6$
9	$2^0 + 2 + 6$
10	$2+0+2+6$
11	$-2+0!+2 \times 6$
12	$2 \times 0 + 2 \times 6$
13	$2 - 0! + 2 \times 6$
14	$2 + 0 + 2 \times 6$
15	$2 + 0! + 2 \times 6$
16	$-2 + (0! + 2) \times 6$
17	$20 - \boxed{\sqrt{2 \times 6}}$
18	$(2^0 + 2) \times 6$
19	$20 - \boxed{\sqrt{\sqrt{2+6}}}$
20	$2 + (0! + 2) \times 6$
21	$20 + \boxed{\sqrt{\sqrt{2+6}}}$
22	$-\boxed{\sqrt{20}} + 26$
23	$-2 - 0! + 26$
24	$(2 + 0 + 2) \times 6$
25	$-2 + 0! + 26$
26	$2 \times 0 + 26$
27	$2 - 0! + 26$
28	$2 + 0 + 26$
29	$2 + 0! + 26$
30	$(2 + 0! + 2) \times 6$

From:

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