

**MATHEMATICS WITHOUT BORDERS – WINTER 2021**

**ANSWER KEY G5-G9**

Age Group Problem	5	6	7	8	9
1	2	0	2020	0	231
2	4	-8	-2	3	4
3	11 or 13	-1	30	-1	1
4	71	21	90	$\sqrt{5} - 1$	10
5	3	90	1	4	2022
6	0	-32	80	5	$\pi$
7	3 or 5	1 and 3	22	11	$\sqrt{5} - 2$
8	8	2, 4, 7 and 9	3	4	$-6\sqrt{3}$
9	6	4	3	1	3
10	7	6	2	2	$x + 2020$
11	81	22	11	-1	8
12	24	27	189	5	4
13	18	1	50	2	45000
14	12 or 16	37.5	100	$\sqrt{2} + \sqrt{3} - 3$	11
15	202	1.39	130	78	4
16	47	144	5	27	4
17	2020	5	6	5	14
18	84 or 60	3	$a^3 + 2a^2 - 5a + 2$	4	11/36
19	405	871	5	9	9
20	3875	2020	1	15	1.5