

MATHEMATICS WITHOUT BORDERS - SPRING 2020

ANSWER KEY – AGE GROUPS 1-4

Age Group Problem	1	2	3	4
1	4	3	15	0
2	3	3	321	6
3	19	2	5	40
4	5	7	22	3
5	10 or 11	2	3	10
6	3	3	500	900
7	12	28	10	621
8	9	6	257	1
9	3	18	2	5
10	11	26	5	36
11	yellow	3	24	7
12	5	38	9	83
13	2	11	9	15
14	10	9	63	24 or 8
15	5	11	72	9
16	$3 + 4 + 7 = 14$	3	14	0
17	0	4	3	5
18	3	–	1	128
19	91	1	801	22 and 94
20	8	3	405	405

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ANSWER KEY – AGE GROUPS 5-9

Age Group Problem	5	6	7	8	9
1	2	-12	± 122	0	10
2	400.03	0	0	$\sqrt{37}$	27
3	0	-404	0	3	1
4	90000	4	2	1	4
5	11	-69999	-8	23	1
6	5201064	4	0.036	10	0 and 3
7	35532; 35336	0	36	3	3
8	48	2	1	$x = 2020$	4
9	6	0	10	4	-1
10	10 and 14	9	36	5	62
11	188	6.25	13	5	62
12	144	152	30^0 or 15^0	4	3, 4 and 7
13	0.4	22	2	3	50
14	1	2	188	28	36
15	13	3.5	30	1448	41
16	1	2	0 and 2	13	3
17	1	3	3	$\frac{4}{3}$	$\sqrt{5}$
18	1	3	5	420^0	90
19	202.2	25.14	4	45	420^0
20	11	10	3	$2\sqrt{6}$	4