

MATHEMATICS WITHOUT BORDERS - AUTUMN 2018

ANSWER KEY

Group Problem	1	2	3	4	5	6	7	8	9
1	2	7	$70 - (40 + 20) = 10$	$100 - 2 \times (22 + 28) = 0$	4	0.25	-2	2	2
2	1	18, 33	5	7	9	3	-1	-4	17
3	8	20	11	39	29	2	-1	3	-1
4	11	100	4	98976	21299	42 or 66	-1	80	-1
5	6	4	6	147	31	84	9	92	0
6	>	7	12	28	5	123	30	13:20	143
7	3	10	45	Boris	7	8	3	2	3
8	=	Mary	5	99994	3	107	1	16	1
9	4	10	11	2	35	18	12	11	4
10	-	Rome	Boris	999	2	6	20	14	$x = 1$
11	9	4	22	23	18	100	2	19	6 or $16/3$
12	21	6	5	2	14, 16, 26	40	150	$3\frac{1}{3}$	12
13	•	10	16	42	8	152	152	296	1
14	1	70	5	16	7	4	1.5	15	296
15	2	12	8	8	16	2	30	75	3
16	10	4	6	10	10	11	2 or 1	10	1111111111
17	6	2	5	9	6	12	11	2	2
18	6	4	10	12	12	12	12	720	720
19	11	4	3	3	30	27	76	9	9
20	14	5	12	9	60	7	10	2018	2018