

MATHEMATICS WITHOUT BORDERS – FINAL 2014-2015

NESSEBAR 1 JULY 2015

ANSWERS

Group Problem	1	2	3	4	5	6	7	8	9
1	B	C	B	A	B	A	D	D	D
2	A	B	B	C	C	A	C	B	A
3	B	B	B	B	A	C	D	C	B
4	A	B	B	C	D	B	C	C	C
5	C	B	B	C	D	A	B	D	B
6	B	B	C	C	C	B	B	A	D
7	A	A	A	A	A	C	D	A	C
8	C	C	A	A	A	A	D	B	A
9	A	C	C	C	B	C	D	D	B
10	B	C	B	A	A	A	D	C	C
11	1	50	7	32	52	5 %	324	136	13
12	9	8	18	7	14	13	5	1	$14\sqrt{2}$
13	17	3	3	9	76	259	2	1/2	2
14	2	19	16	20	3.4	25 or 49	6	56	-5/3
15	0	8	19	405	24	16	15	120	-1
16	3	1 or 12	3	12	140	9515	2015	3/4	1/105
17	11	8	10	9	1, 2, 3 or 4	-4	4	2	-1/2015
18	6	8	9	13	7	4028	90 и 126	6	12
19	5	9,10,11	14	7	4	$\frac{5x^2 - 3x}{2}$	0.99	8	4/5
20	3	9	991	10	182	12,5	$x^2 + xy + y^2$	3	4