USA IMO TST 2021 Solutions

United States of America — IMO Team Selection Test

ANDREW GU, ANKAN BHATTACHARYA AND EVAN CHEN

62th IMO 2021 Russia

The Romanian Masters of Mathematics (RMM) was originally scheduled in February and is normally used as a USA team selection test. Since the RMM was postponed due to the COVID-19 pandemic, a single three-problem test was used instead for team selection testing in February. The statistics for that one exam are listed here.

§1 Summary of scores for TST 2021

N	27	1st Q	7	Max	21
μ	10.15	Median	7	Top 3	16
σ	4.30	3rd Q	13	Top 6	14

§2 Problem statistics for TST 2021

	P1	P2	P3
0	0	20	17
1	0	2	1
2	0	0	1
3	0	0	0
4	0	0	2
5	0	0	1
6	1	0	2
7	26	5	3
Avg	6.96	1.37	1.81
QM	6.97	3.02	3.23
#5+	27	5	6
%5+	%100.0	%18.5	%22.2

§3 Rankings for TST 2021

```
Sc  Num  Cu   Per        Sc  Num  Cu   Per         Sc  Num  Cu   Per
21   2    2   7.41%       14   2    6   22.22%       7   13   26   96.30%
20   0    2   7.41%       13   2    8   29.63%       6    1   27  100.00%
19   0    2   7.41%       12   1    9   33.33%       5    0   27  100.00%
18   0    2   7.41%       11   2   11   40.74%       4    0   27  100.00%
17   0    2   7.41%       10   0   11   40.74%       3    0   27  100.00%
16   1    3  11.11%        9   0   11   40.74%       2    0   27  100.00%
15   1    4  14.81%        8   2   13   48.15%       1    0   27  100.00%
                                                     0    0   27  100.00%
```

§4 Histogram for TST 2021