

Math Open at Andover 2022 Statistics

The MOAA Team
October 8th, 2022

Speed Round

The Speed Round was a 15-problem, 40-minute exam. Problem weights are listed below.

Problem	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Weight	3	3	4	4	4	5	5	5	6	7	8	10	11	12	13

In-Person

Mean: 22.0

First Quartile: 10

Median: 19

Third Quartile: 29

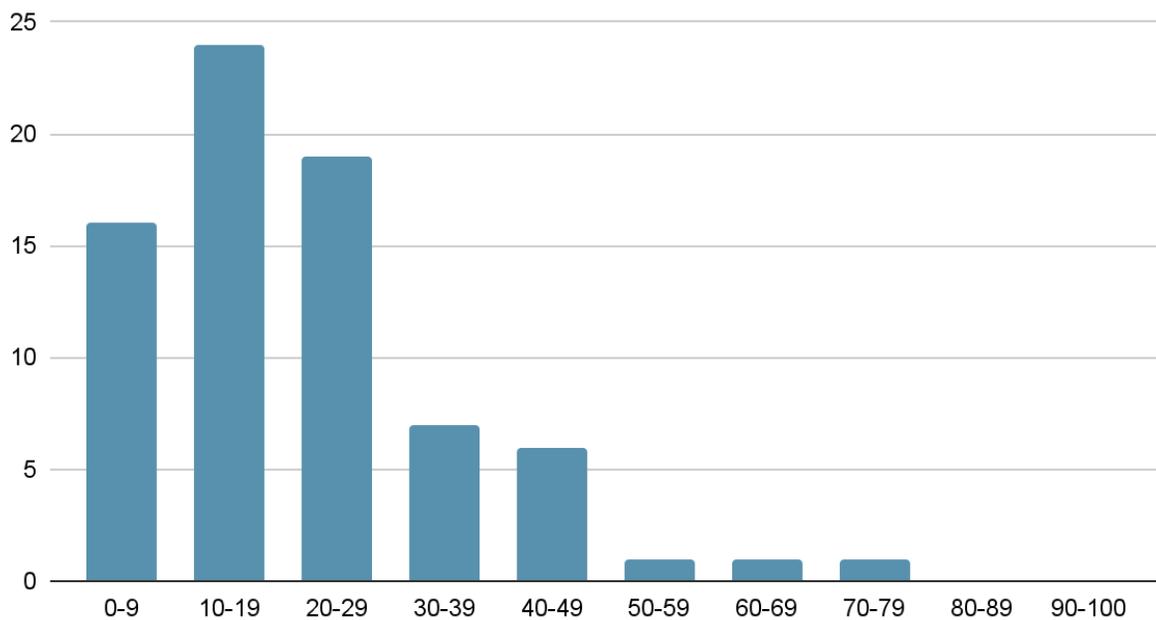
Minimum: 0

Maximum: 87

Mode: 6

Standard Deviation: 16.6

Points scored



Virtual

Mean: 22.9

First Quartile: 10

Median: 19

Third Quartile: 32

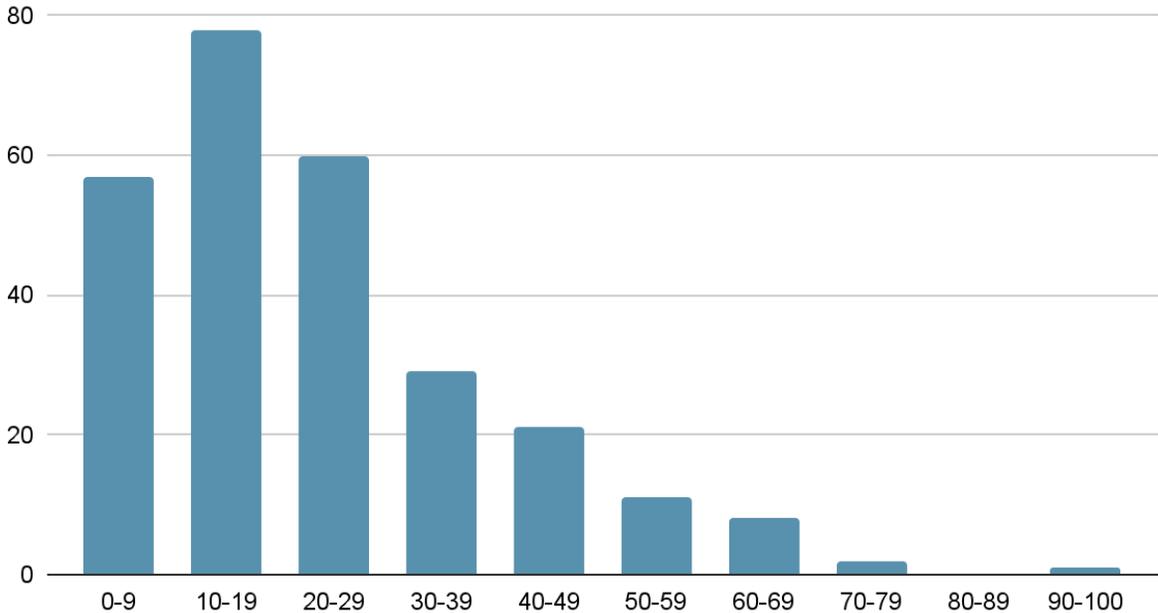
Minimum: 0

Maximum: 90

Mode: 6

Standard Deviation: 16.6

Points scored



Accuracy Round

The Accuracy Round was a 10-problem, 50-minute exam. Problem weights are listed below.

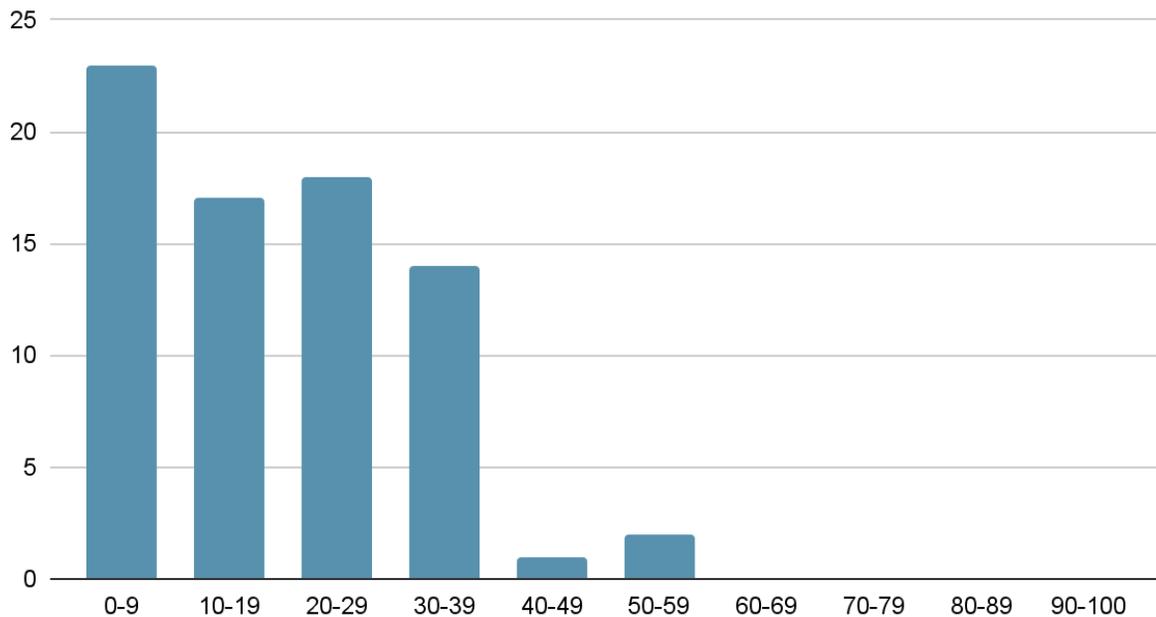
Problem	1	2	3	4	5	6	7	8	9	10
Weight	4	4	5	6	8	10	13	16	16	18

In-Person

Mean: 18.0
First Quartile: 8
Median: 16
Third Quartile: 27

Minimum: 0
Maximum: 50
Mode: 4
Standard Deviation: 12.6

Points scored



Virtual

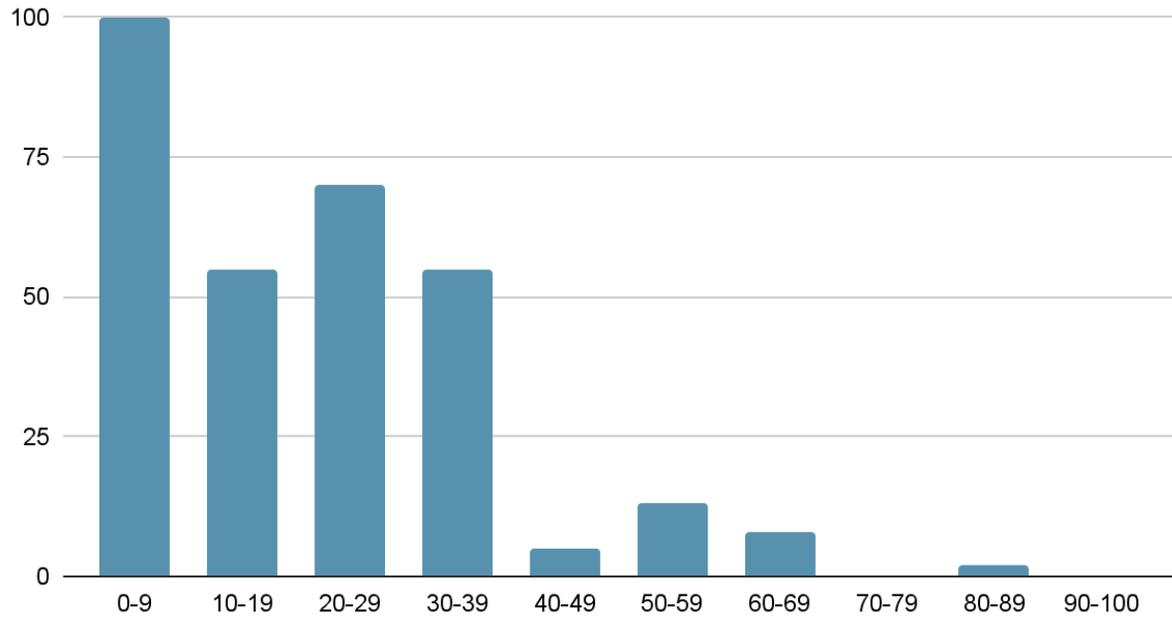
Mean: 21.1
First Quartile: 8
Median: 19

Third Quartile: 31
Minimum: 0
Maximum: 84

Mode: 4

Standard Deviation: 16.0

Points scored



Individual Total

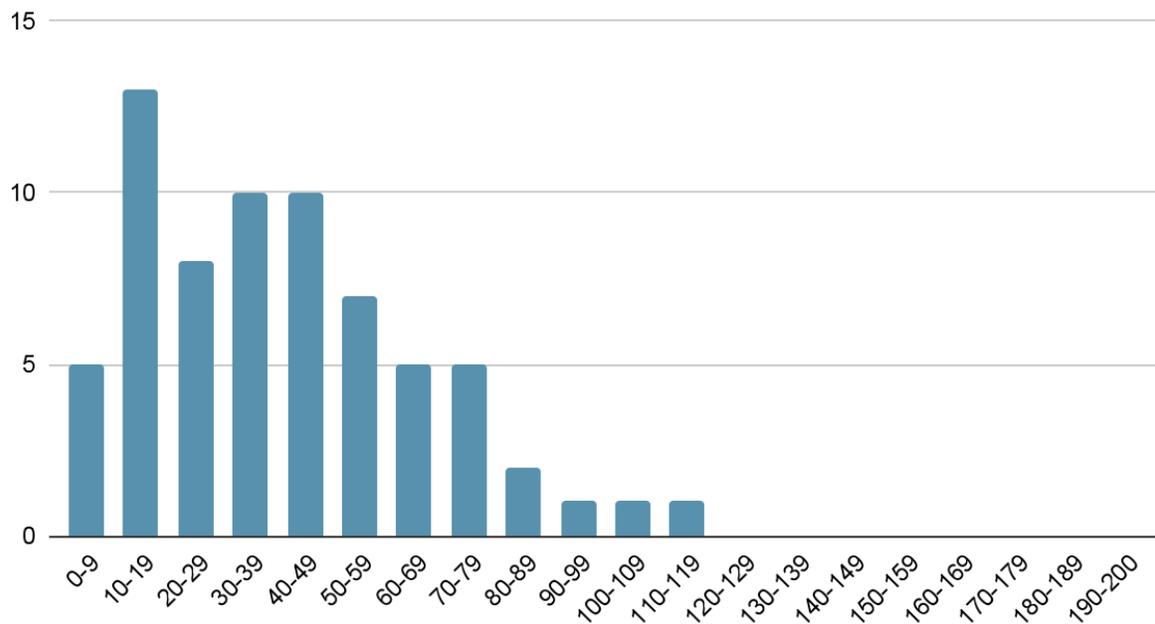
The Individual Total score for each competitor is the sum of speed and accuracy scores.

In-Person

Mean: 40.3
First Quartile: 19
Median: 38
Third Quartile: 57.5

Minimum: 0
Maximum: 113
Mode: 10
Standard Deviation: 26.0

Points scored

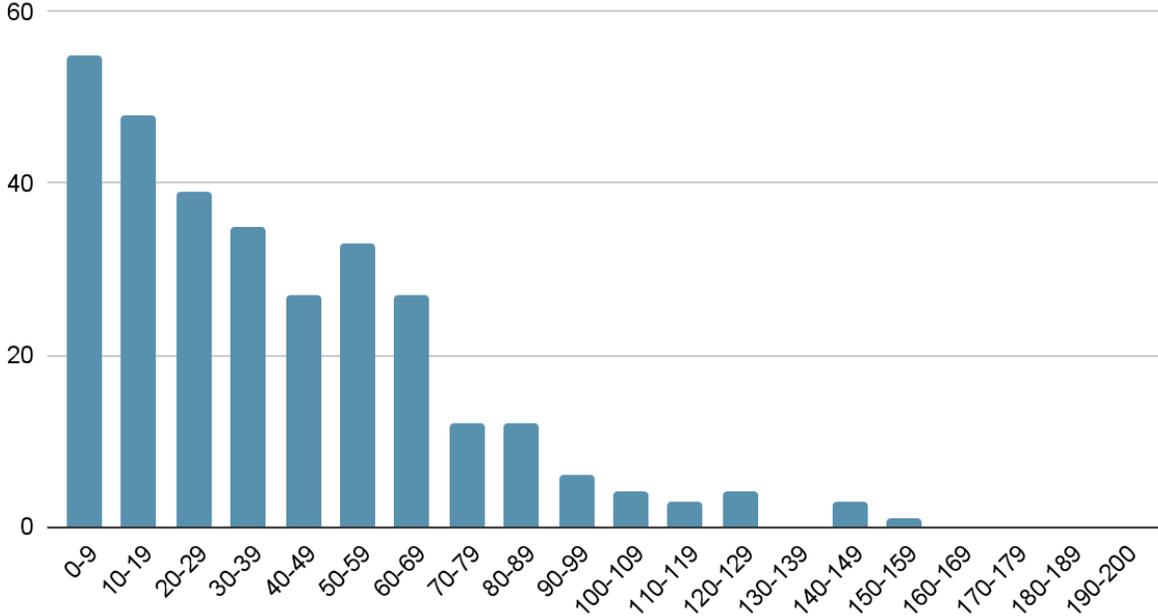


Virtual

Mean: 41.2
First Quartile: 15
Median: 37
Third Quartile: 60

Minimum: 0
Maximum: 151
Mode: 4
Standard Deviation: 32.4

Points scored



Team Round

The Team Round was a 10-problem, 40-minute exam. Problem weights are listed below.

Problem	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Weight	5	5	7	8	10	15	20	20	25	30	35	50	50	50	70

In-Person

Mean: 51.7

First Quartile: 23.5

Median: 35

Third Quartile: 67.5

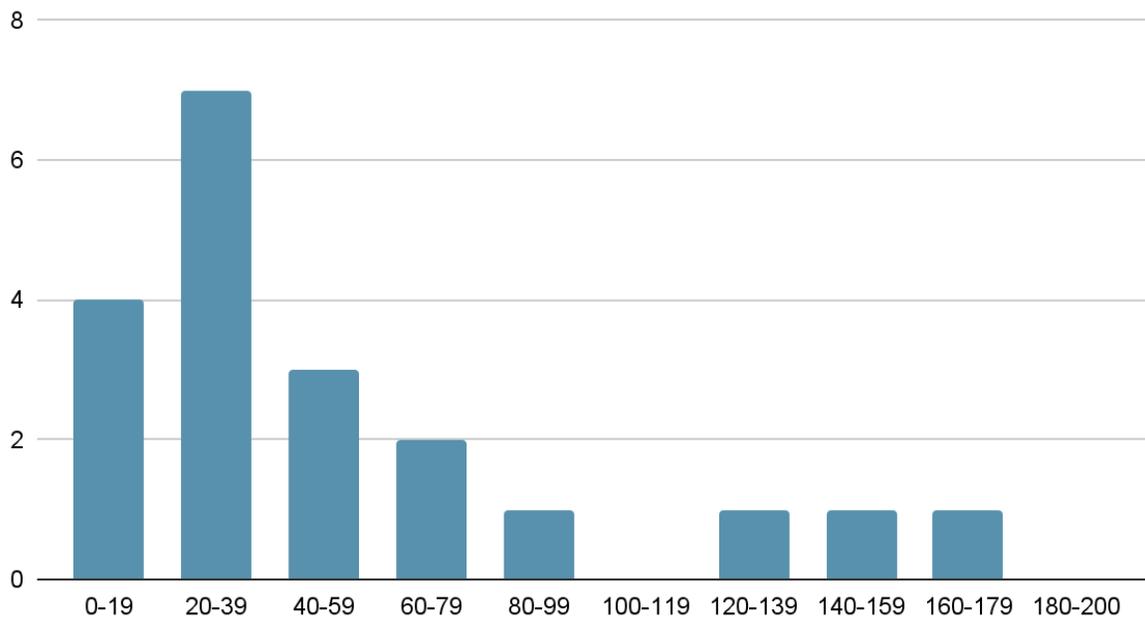
Minimum: 5

Maximum: 160

Mode: 15, 27, 35, 42

Standard Deviation: 43.1

Points scored



Virtual

Mean: 37.7

First Quartile: 18

Median: 27

Third Quartile: 50

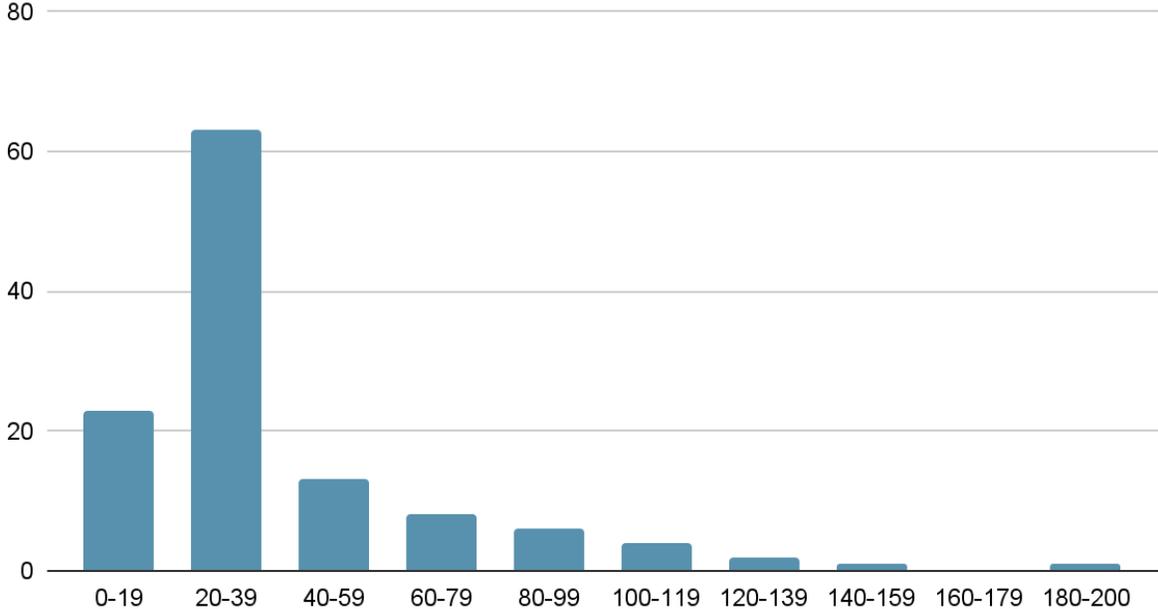
Minimum: 0

Maximum: 190

Mode: 30, 0

Standard Deviation: 33.8

Points scored



Gunga Bowl

The Guts Round was a 27-problem, 75-minute exam. Problem weights are listed below.

Round	1	2	3	4	5	6	7	8	9
Weight	8	10	12	14	16	18	20	22	30

In-Person

Mean: 176.8

First Quartile: 117

Median: 157

Third Quartile: 216

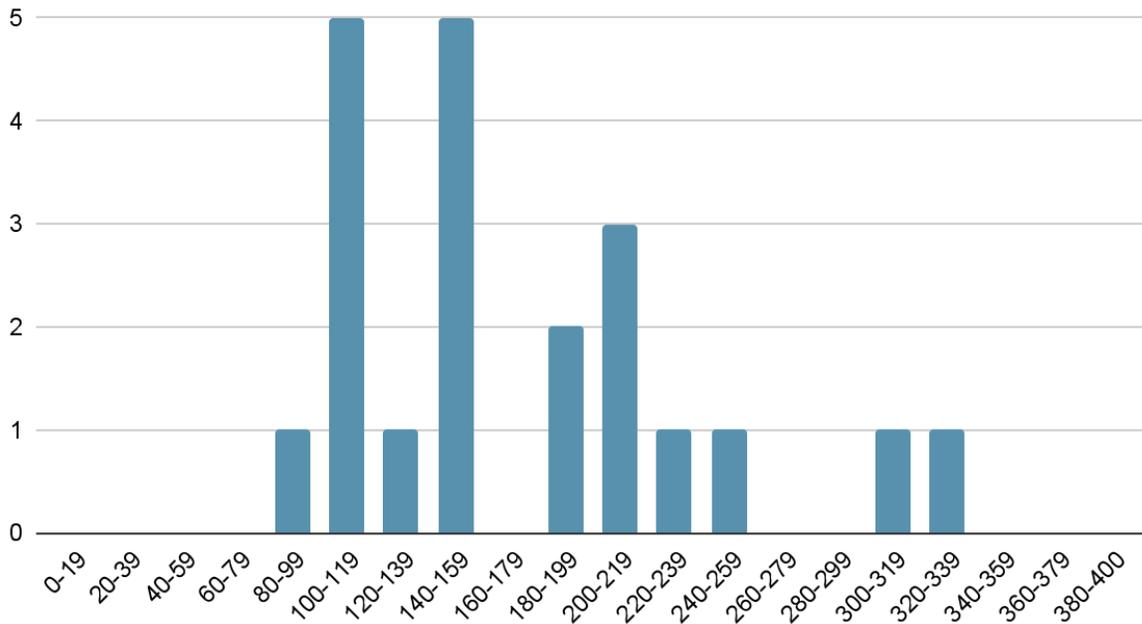
Minimum: 100

Maximum: 338

Mode: 108

Standard Deviation: 65.0

Points scored



Virtual

Mean: 105.7

First Quartile: 24

Median: 106

Third Quartile: 155

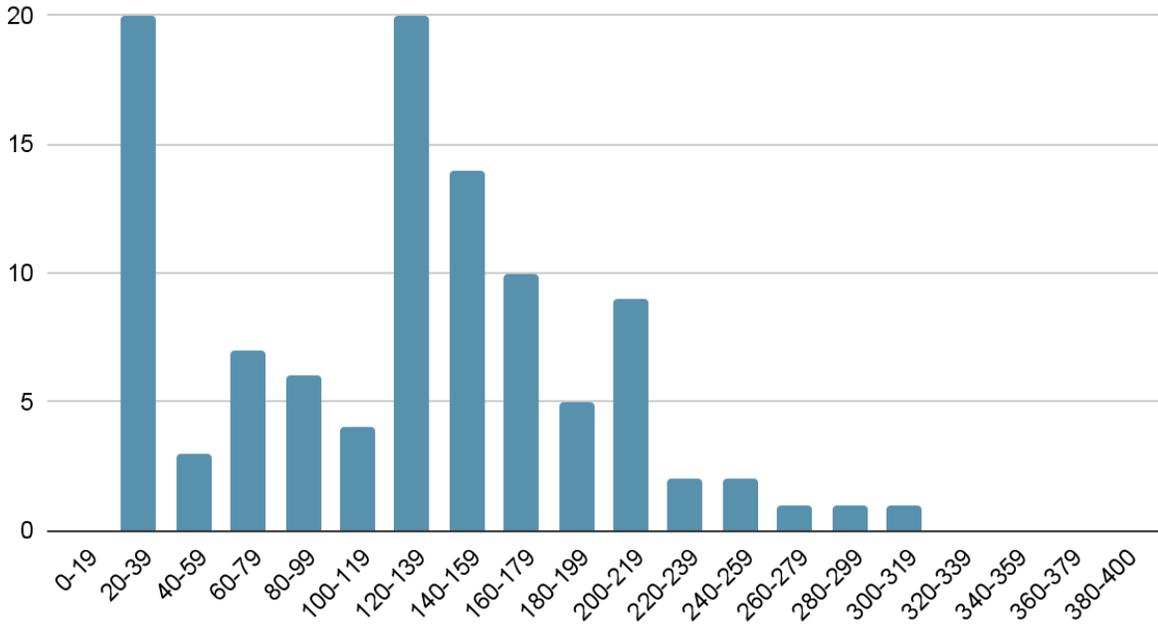
Minimum: 24

Maximum: 302

Mode: 24

Standard Deviation: 72.3

Points scored



Team Sweepstakes

The Team Sweepstakes score is the sum of the two times the average Individual Total score, the Team Round score, and the Gunga Bowl score.

In-Person

Mean: 284.0

First Quartile: 178

Median: 260

Third Quartile: 362

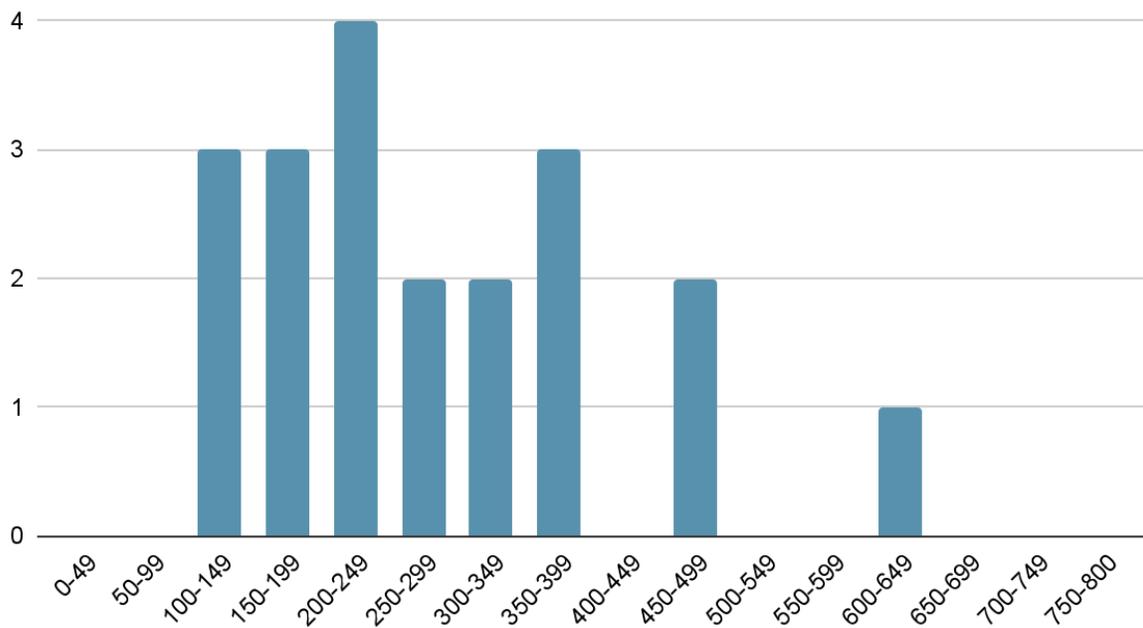
Minimum: 124

Maximum: 645

Mode: 284

Standard Deviation: 134.2

Points scored



Virtual

Mean: 200.9

First Quartile: 118

Median: 193

Third Quartile: 261

Minimum: 24

Maximum: 633

Mode: 190

Standard Deviation: 109.8

Points scored

