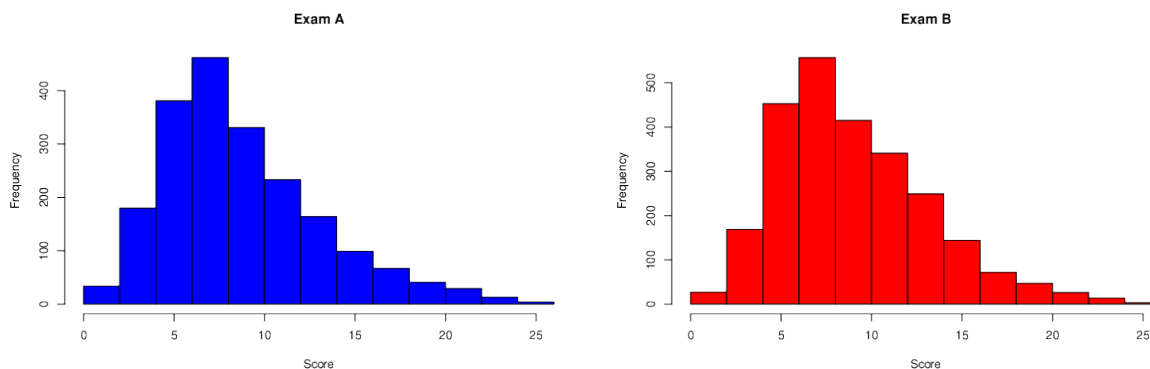


## 2022 $F = ma$ Contest Results

In 2022 there were two  $F = ma$  exams administered. The data from the exams are in the table below.

	Exam A (February 9)	Exam B (February 15)
Number of scored exams	2038	2518
Minimum Score	0	0
Maximum Score	25	25
Median Score	8	8
Mean Score	8.24	8.51
Standard Deviation	4.37	4.17

Score distributions for the two exams are in the histograms below. The vertical scale is the number of scores; the horizontal scale is the score.



Our goal is to invite approximately 400 top students to take the USAPhO exam. This year, the minimum scores necessary to get an invitation to to the 2022 USAPhO is the same for both exams:

**15 points.**

Students were allowed to take both  $F = ma$  A & B exams, but they must meet or exceed the cutoff score of 15 points for both exams to move on to the USAPhO exam.