Contest Rules

for CMIMC, HMMT, and PUMaC

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A basic rundown of the rules. The official lists can be found here for CMIMC, here for HMMT, and here for PUMaC. The rules marked with & are related to online testing.

1 CMIMC

- TCS Round
 - Proof
 - 90 minutes
 - 3 problems
 - Done with team
- Team Round
 - Short answer
 - 60 minutes
 - 15 problems
- Individual Rounds
 - Short answer
 - 60 minutes
 - 8 problems
 - Three rounds: algebra & NT, combinatorics & CS, and geometry
 - Two divisions: 1 (harder) and 2 (easier)
- Submitting
 - You are given some time to submit at the end
 - ♦ For TCS submit a PDF to a Google form (i.e. solutions are required)
 - ♦ For Team and Individual submit on the website
- Proctoring
 - ★ Stay muted
 - ★ Turn your camera on
 - ♦ No computational tools (e.g. calculators)

2 HMMT

- Guts Round
 - Short answer
 - 80 minutes
 - 36 problems, given in sets of 3 in November and 4 in February (after completing a set you turn it in to receive the next one)
 - Done with team
- Team Round
 - Short answer
 - 60 minutes
 - 10 problems
 - **November** is *short-answer*
 - **Feburary** is *proof*
- Individual Round
 - Short answer
 - 50 minutes
 - 10 problems
 - November has two rounds: general and theme
 - February has three rounds: algebra & NT, geometry, and combinatorics
- Submitting
 - Everything must be handwritten (in particular, do not type or LATEX)
 - ♦ Use website to submit everything
 - ♦ Don't forget to save your answers; otherwise the website won't record them
 - ★ Scratch work must be uploaded (for each question submit an image/PDF of your answer and work for that question)¹
- Proctoring
 - ♦ You must join a Zoom meeting for all rounds and events
 - ♦ Cameras must be on and do **not** use virtual backgrounds

Q3 PUMaC

- Power Round
 - Proof
 - 1 week
 - # of problems varies; includes several parts
 - Done with team

¹Download something like TinyScanner or CamScanner to easily take pictures with.

 You can use question a to prove question b if a < b, but (to my knowledge) not vice versa

• Individual Round

- Short answer
- 60 minutes
- 8 problems
- Four rounds: algebra, combinatorics, geometry, and NT (each contestant chooses 2)
- Two divisions: A (harder) and B (easier)

• Team Round

- Short answer
- 30 minutes (sometimes varies)
- # of problems varies
- There is a "game" component in which teams have the opportunity to increase their score (see previous tests)

• Individual Finals

- Proof
- 90 minutes
- 3 problems
- Only top 10 individuals in each test and each division take this test

• Live Round

- Literally just a random set of problems with everyone doing the test at the same time (similar to Guts)
- Done with team

Remark 1. I have no idea how submissions/proctoring will be done at PUMaC; someone please let me know.