Wow, we're off to a pretty rough start. Only 4 perfect scores this time, leaving ample room for Lynbrook to surge into the lead. Read on for details....

**General Results**

|  |  |  |  |
| --- | --- | --- | --- |
| Grade | Average Score | Participants | Total Points |
| Freshmen | 2.63 | 19 | 50 |
| Sophomores | 2.77 | 31 | 86 |
| Juniors | 3.45 | 22 | 76 |
| Seniors | 2.70 | 20 | 54 |
| Overall | 2.91 | 92 | 268 |

First of all, we had 92 students participate in the first CaML, which is somewhat surprising considering it was senior day in Homecoming Week. Perhaps one of the effects of this fact was that the senior average took a big dive, landing right between the freshman and sophomore averages. In any case, unfortunately, while all of the classes performed respectably, the averages were certainly lower than expected on this first contest with averages below 2.8, with the major exception of the juniors who fared pretty well at 3.45. It was definitely easy to make careless mistakes on this particular CaML.

**Score Distributions**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Grade | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
| Freshmen | 5% | 11% | 32% | 32% | 11% | 11% | 0% |
| Sophomores | 7% | 16% | 16% | 29% | 23% | 10% | 0% |
| Juniors | 0% | 9% | 18% | 23% | 23% | 14% | 14% |
| Seniors | 0% | 40% | 15% | 5% | 25% | 10% | 5% |
| Overall | 3% | 17% | 20% | 23% | 21% | 11% | 4% |

The freshman, sophomore, junior, senior, and overall modes are 2 and 3, 3, 3 and 4, 1, and 3 respectively. All of these distributions are unimodal (only one peak), except for the bimodal senior distribution which peaked at both 1 and 4.

Oh yeah, here's a 3D pie chart to appease some of you:

**Success Rates**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Grade | #1 | #2 | #3 | #4 | #5 | #6 |
| Freshmen | 84% | 58% | 32% | 58% | 21% | 11% |
| Sophomores | 84% | 65% | 32% | 68% | 23% | 7% |
| Juniors | 96% | 73% | 55% | 73% | 32% | 18% |
| Seniors | 95% | 60% | 35% | 45% | 15% | 20% |
| Overall | 89% | 66% | 38% | 62% | 22% | 13% |

**High Scorers**

Freshmen (4+): Tiancheng Qin (5), Austin Wu (5), Jamin Chen (4), Brian Xie (4)

Sophomores (5+): Alvin Kao (5), Kelvin Lu (5), Nancy Xu (5)

Juniors (5+): **Aaron Lin (6)**, **Jonathan Lu (6)**, **Patrick Zeng (6)**, Krishna Bharathala (5), Lewis Chen (5), Albert Zhou (5)

Seniors (5+): **Albert Zheng (6)**, Kevin Chen (5), Rebecca Wang (5)

**Submission Stats**

Here are the correct answers and the most common missed answers. Correct answers in bold.

#1: **π/2 (51 submissions), π : 2 (24), other correct answer (e.g. π/2 = 1.5708) (7)**, π (2), π/4 (2)  
#2: **2 and 2012 (there were *many* variations on this answer; see below) (61)**, some variation of ±2012 (7), some variation of ±2 (3)  
#3: **49 (35)**, 25 (22), 48 (7), 20 (3), 40 (3)  
#4: **7 (57)**, 3 (11), 1 (9), 5 (5), 13 (3)  
#5: **502 (20), other correct with calculation in box (1)**, 120 (7), infinity (5), 498 (3)  
#6: **24 (coins) (12)**, 17 (coins) (17), 7 (5), 25 (5), 10 (3), 34 (3)

**Other Stats**

Let's analyze the answers to #2 further:

36 people used commas  
9 people used "and"  
6 people used no delimiters (e.g. "2 2012")  
4 people used "or"  
3 people used semicolons  
1 person used both commas and "and"  
2 people did something else (both rewrote "|a-c|" in their answers)

34 put 2 before 2012  
27 put 2012 before 2

Thanks CaML takers, you have expanded our horizons on how to delimit answers, and educated us further on listing style.

**Most Common Missed Answer Contest**

We currently have one participant in the contest, who is Alex Dai with 2.4741 points. The maximum possible score so far is 6.

**Upcoming Contests**

The first **Mandelbrot** will be on Wednesday, November 7th. This 7-question, 40-minute contest will take place in C5, Mr. Lau's room. You must be a math club member to participate in this contest; see me at the math club meetings during Thursdays at lunch in C5 if you are interested in this contest. Membership costs $5.  
The next **CaML** will be on Tuesday, November 13th.

Thanks for reading this edition of the CaML newsletter!

-Jeffrey Yuan

(Thanks to Lewis Chen for the stats)  
(Also, what other (mild) forms of bad typography can you all think of? I'm running out of ideas....)  
(Also, if you'd like to request other stats, simply contact Lewis or me)