Rules for Junior Section

Rules:

1. You may work in groups of 2 or by yourself (Based on the number students)

2. On your submission, write (in that order):

   (a) Team number
   (b) Problem number
   (c) Answer

3. If you write multiple answers, it will be assumed wrong.

4. Express your answer as exact numbers such as π rather than 3.14.

5. You may not use any computing devices other than your brain.

6. Infinity is a valid answer.

7. Facts you may find useful:

   (a) $n! = (n)(n-1)(n-2)...(3)(2)(1)$
   (b) $\lfloor x \rfloor$ is the greatest integer less than or equal to x

Sample Problems for Junior Section

Compute (1 minute)
$$1 + 3 - 2 + 5 - 4 + 7 - 6 + ... + 99 - 98$$

Compute (2 minutes)
$$2^0 + 2^1 + 2^2 + 2^3 + ... + 2^{10}$$

Compute (5 minutes)
$$1 + \cfrac{1}{1 + \cfrac{1}{1 + ...}}$$