

DEPARTMENT OF MATHEMATICS

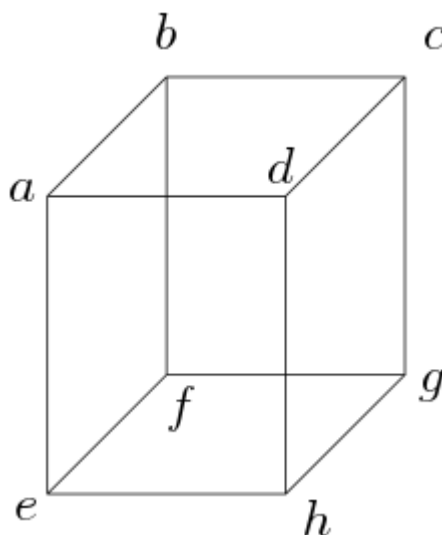
Math Club



## Michigan Epsilon Chapter of Pi Mu Epsilon

### Problem of the Fortnight

Is it possible to put the numbers  $1, 2, \dots, 8$  on the vertices (corners) of a cube, using each number exactly once, in such a way that every edge has a different sum? For example,  $a + b$ ,  $b + c$ ,  $c + g$ , and  $e + h$  would all have to be different.



Please turn in your solutions to Dr. Patrick Bennett, by noon on **Friday, February 1 2019**. Strive for clarity, neatness and legibility! Solutions may be turned into the Math Dept office in **3319 Everett Tower**. Please include your name and email address. Electronic submissions may be sent to **patrick.bennett@wmich.edu**. If you are currently taking a math class, please include the instructor's name and the course number.

<http://www.wmich.edu/mathclub>