

Problem Solving Competition – Problem #8

- Your submission should contain a FULL solution. Not just the answer, but your entire argument.
- Submit solutions to Dr. Taylor in MCT 281.
- Questions?? Ask Dr. Taylor in MCT 281 or by email at pttaylor@ship.edu.
- Problems and occasional updates on solutions and winners will be posted at webspaceship.edu/pttaylor/PSC/index.html

The digit 8 can be used eight times to form 1000 as follows:

$$8 + 8 + 8 + 88 + 888 = 1000$$

Find another solution which uses eight copies of the digit 8 to form 1000. You may use the operations addition, subtraction, multiplication, division, and exponentiation.

Solutions for this problem are due **Wed, April 12** at 4pm.

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