Puzzler of the Month

October 2017

From the Monroe Community College Mathematics Department
For MCC Students, Faculty, Staff, and Friends

Solve this puzzle and you could win a prize!*

You are equipped with a single 2, 5, 7, and 10 along with the ability to combine them using only addition, subtraction, multiplication, division, and exponentiation.

Your goal is to create each of the integers from 29 to 45 as well as 78, 81, & 87.

You may use any number of parentheses to control the order of operations and in each case, <u>you must use all four numbers exactly once</u>.

For example: 22 = 5^2 - 10 + 7

Solutions must be submitted by October 31

To submit a solution:

1. *Neatly write up your solution, clearly identifying the answer and clearly showing all work when requested.*

2. *Include your name and email (so we can contact you if you win the prize).*

3. *On the Brighton Campus, solutions may be submitted in the Puzzler of the Month drop box in the Math Learning Center (11-204). Solutions at the Downtown Campus can be submitted to Michael Eames (Mathematics), office 574-M.*

You may also submit solutions by emailing Steve Kilner at <u>skilner@monroecc.edu</u> (please indicate "puzzler solution" as the subject). Faculty and staff may use inter-departmental mail.

For official rules and more details go to the Math Learning Center 11-204 or visit our website: www.monroecc.edu/go/mathpuzzler .