Puzzler of the Month

February 2018

From the Monroe Community College Mathematics Department

Solve this puzzle and you could win a prize!*

Between each pair of adjacent digits in the numbers given below, you are to insert one of the operations +, -, ×, and/or ÷ to create an expression that results in 100. You may include any number of parentheses to control the order of operations, but changing the order of the digits and concatenating the digits to form a number with two or more digits is not permitted. Note: the operator " - " indicates subtraction, not negation.

For example, starting with the number 9861184, we can obtain a result of 100 as follows:

$$9 \times 8 + 6 \div (1 + 1) \times 8 + 4 = 100$$

Obtain a value of 100 by starting with each of the following seven-digit numbers:

1) 3141592   2) 2718281   3) 1234567

Solutions must be submitted by February 28

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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 skilner@monroecc.edu (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 .