



UNIVERSITY OF WISCONSIN  
**PLATTEVILLE**  
DEPARTMENT OF MATHEMATICS

PROBLEM OF THE WEEK #2  
(Spring 2019)

Recently, some of us attended a presentation in which it was mentioned that in 2016, Peter Trueb had computed the value of  $\pi$  to 22,459,157,718,361 decimal places, and an audience member asked if he had printed them all out.

Suppose that Trueb had in fact printed them all out, and stored the results in stacks on a concrete slab. How large would the slab have to be, assuming that you don't want the concrete to crack?

[To solve this problem, you will need to use information that is not given here. State your assumptions!]

[Please fully explain your answer.]

Solutions should be submitted to Cinda Furry, in Gardner Hall 435, by 4:00 P.M. on Wednesday, February 6, 2019.

Every week, the best solution submitted earns a \$10 Platteville gift certificate; the top scorer each semester also wins a cash award. Good luck!

You can always see the Problem of the Week (and complete rules) online at:

<http://uwpmath.weebly.com/>