

Problem of the Week #6 (Spring 2023)

For each positive integer n , let D_n	be the greatest odd d	divisor of n . (For exa	mple, $D_{168} = 21.$)
Find $D_1 + D_2 + D_3 + \dots + D_{2048}$.			

[Please fully explain your answer.]

Email solutions to kwonmi@uwplatt.edu by 2:00pm on Wednesday, March 8, 2023.

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/