

Cullen number^{*}

PrimeFan[†]

2013-03-21 23:26:22

A *Cullen number* C_m is a number of the form $2^m m + 1$, where m is an integer. Almost all Cullen numbers are composite, and they have $2m - 1$ as a factor if that number is a prime of the form $8k - 3$ (with k a positive integer). The first few Cullen numbers are 1, 3, 9, 25, 65, 161, 385, 897, 2049, 4609 (listed in A002064 of Sloane's OEIS). With the exception of 3, no Proth number is also a Cullen number.

^{*}*CullenNumber* created: *2013-03-21* by: *PrimeFan* version: *39719* Privacy setting: *1* *Definition* *11A51*

[†]This text is available under the Creative Commons Attribution/Share-Alike License 3.0. You can reuse this document or portions thereof only if you do so under terms that are compatible with the CC-BY-SA license.