n	M_n	**Digits**	**Prime?**
2	3	1	Prime.
3	7	1	Prime.
5	31	2	Prime.
7	127	3	Prime.
11	2,047	4	Not prime. In 1536 Hudalricus Regius showed that $2047 = 23 * 89$.
13	8,191	4	Prime. Proved prime in 1456. Discover not known.
17	131,071	6	Prime. Cataldi proved prime in 1603 using trial division.
19	524,287	6	Prime. Cataldi proved prime in 1603 using trial division.
23	8,388,607	7	Not prime. Cataldi claimed as prime in 1603. Fermat showed was composite in 1640.
29	536,870,911	8	Not prime. Cataldi claimed as prime in 1603. Euler showed was composite in 1738.
31	2,147,483, 647	10	Prime. Euler proved prime in 1772.
37	137,438,953, 471	12	Not prime. Fermat showed was composite in 1640.
61	2,305,843, 009,213,693, 951	19	Prime. Pervushin proved prime in 1883.

Table 3.7: Mersenne Primes M_n are prime numbers of the form $2 \times 2 \times 2 \cdots \times 2 - 1$, where there are n copies of the number 2. Some M_n are prime and some are not. Source: Chris Caldwell, The Largest Known Prime by Year [27].