

2 Chapter 44 Forty-Four XLIV

numbers. In this case, the Pythagorean triples are [44, 117, 125], [44, 240, 244], and [117, 240, 267]. No Euler brick is known for which the length of the long diagonal is also an integer.

In 1951, Ferrier, using a mechanical desk calculator, showed that the 44-digit number

$$20988936657440586486151264256610222593863921 = \frac{2^{148} + 1}{17}$$

is prime. This is the largest number shown to be prime before the electronic computer age. The previous largest known prime, the 39-digit number

$$170141183460469231731687303715884105727 = 2^{127} - 1$$

which is a Mersenne prime, was shown to be prime using hand calculations by Lucas in 1876.

The forty-fourth President of the United States is Barack Hussein Obama II.

The forty-fourth state to enter the Union was Wyoming.

The forty-fourth largest state in the United States is New Hampshire.

No. 44, The Mysterious Stranger by Mark Twain features a character named 44.

The Hebrew word for “blood” has numerical value 44.