96 = 95 + 1

**Abundant**

96 = 3 \cdot 32 = 3 \cdot 2^5

**Octagonal**

Untouchable: not the sum of proper divisors of any number.

96 = 4^2 + 4^2 + 8^2, unique sum of three squares

Regular 96-gon can be constructed

Smallest number that is the difference of two squares in four ways:

\[ 96 = 10^2 - 2^2 = 11^2 - 5^2 = 14^2 - 10^2 = 25^2 - 23^2 \]

A congruent number: area of a right triangle with rational sides.