66 = 65 + 1

66 = 6 \cdot 11 = 2 \cdot 33 = 3 \cdot 22 = 2 \cdot 3 \cdot 11

Abundant

Triangular \ (11th) \ 66 = \binom{11+1}{2}

Hexagonal

Sum of its divisors is a square: (see 70)

1 + 2 + 3 + 6 + 11 + 22 + 33 + 66 = 144 = 12

Denominator of tenth Bernoulli number, \ \frac{5}{66}

66 = 1^2 + 1^2 + 8^2 = 1^2 + 4^2 + 7^2 = 4^2 + 5^2 + 5^2