$48 = 47 + 1$

$48 = 2 \cdot 24 = 3 \cdot 16 = 4 \cdot 12 = 6 \cdot 8 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 3 = 2^4 \cdot 3$

Abundant.

Product of all proper divisors of 48 is $48^4$.

Highly composite: first with 10 factors.

Neighbors are divisible by squares > 1.

$48 = 6!!$

17-gonal number

Smallest number with 10 divisors

$48 = 4^2 + 4^2 + 4^2$ uniquely

Regular 48-gon is constructible

Smallest with 5 ways as sum of two primes:

$48 = 5 + 43$

$= 7 + 41$

$= 11 + 37$

$= 17 + 31$

$= 19 + 29$