0 + anything = same number
0 times anything = 0

Any power you like.

Multiple of anything you like.

Even number.

The empty sum = 0
0^0 = 1 (although some people disagree)
0! = 1 (factorial)

Zero, cipher, ...

Dimension of a single point. \(2^0+1 \text{ is prime}\)
8 + 1 is prime

The number of people in an empty room. The distance between identical points.

Quote from Allfred North Whitehead:

"The point about zero is that we do not need to use it in the operations of daily life. No one goes out to buy zero fish. It is in a way the most civilized of all the cardinals, and its use is only forced on us by the needs of cultivated modes of thought."

Johannes Danzig:

"In the history of culture, the discovery of zero will always stand out as one of the greatest single achievements of the human race."