

# Division by Zero

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**Division by Zero** is the operation of taking the quotient of any number  $x$  and 0, i.e.,  $x/0$ . The uniqueness of division breaks down when dividing by zero, since the product  $0 \cdot y = 0$  is the same for any  $y$ , so  $y$  cannot be recovered by inverting the process of multiplication. 0 is the only number with this property and, as a result, division by zero is undefined for real numbers and can produce a fatal condition called a **Division by Zero** error in computer programs.

Source: <https://mathworld.wolfram.com/DivisionbyZero.html>

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