## JavaScript Math Reference

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### Math Object

The Math object allows you to perform mathematical tasks.

Math is not a constructor. All properties/methods of Math can be called by using Math as an object, without creating it.

### **Syntax**

For a tutorial about the Math object, read our <u>JavaScript Math Tutorial</u>.

#### Math Object Properties

Property	Description
<u>E</u>	Returns Euler's number (approx. 2.718)
LN2	Returns the natural logarithm of 2 (approx. 0.693)

<u>LN10</u>	Returns the natural logarithm of 10 (approx. 2.302)
LOG2E	Returns the base-2 logarithm of E (approx. 1.442)
LOG10E	Returns the base-10 logarithm of E (approx. 0.434)
<u>PI</u>	Returns PI (approx. 3.14)
SQRT1 2	Returns the square root of 1/2 (approx. 0.707)
SQRT2	Returns the square root of 2 (approx. 1.414)

# Math Object Methods

Method	Description
abs(x)	Returns the absolute value of x
acos(x)	Returns the arccosine of x, in radians
asin(x)	Returns the arcsine of x, in radians
atan(x)	Returns the arctangent of $x$ as a numeric value between -PI/2 and PI/2 radians
atan2(y,x)	Returns the arctangent of the quotient of its arguments
ceil(x)	Returns x, rounded upwards to the nearest integer
cos(x)	Returns the cosine of x (x is in radians)
exp(x)	Returns the value of E <sup>x</sup>
floor(x)	Returns x, rounded downwards to the nearest integer
log(x)	Returns the natural logarithm (base E) of x
max(x,y,z,,n)	Returns the number with the highest value
min(x,y,z,,n)	Returns the number with the lowest value
pow(x,y)	Returns the value of x to the power of y
random()	Returns a random number between 0 and 1

round(x)	Rounds x to the nearest integer
sin(x)	Returns the sine of $x$ ( $x$ is in radians)
sqrt(x)	Returns the square root of x
tan(x)	Returns the tangent of an angle

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