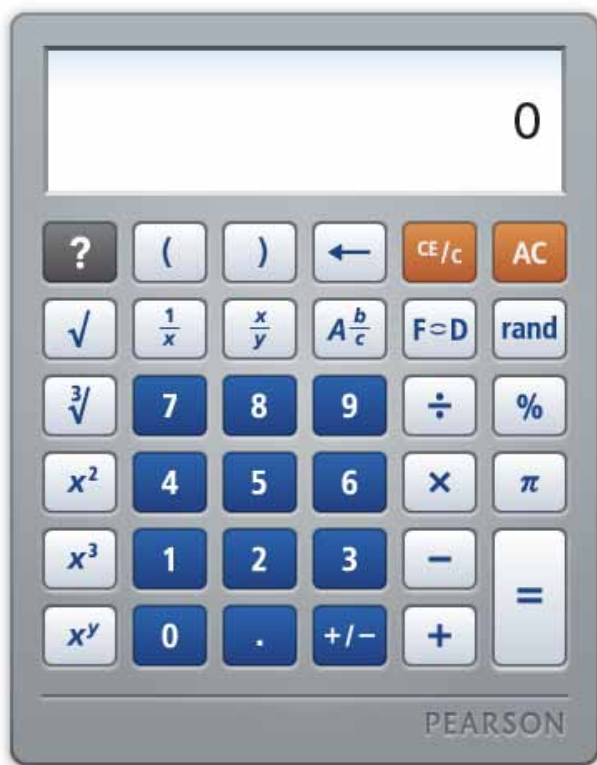




















# Expression Calculator

In this tool, you can evaluate numerical expressions.









1.  Launch a help file PDF for the tool.
2.  Use the left parenthesis to begin a parenthetical expression.  
*Note: When using the square root or cube root keys, the left parenthesis for the expression inside the radical is already present.*
3.  Use the right parenthesis to end a parenthetical expression.
4.  Use the backspace button remove the last character(s) in the calculator display.
5.  If an expression with an operator is present, pressing the Clear Entry button will clear any part of the expression after one of the operators (, , , ) on the screen but keep the operator and any expression to the left of the operator. If no operator is present, the Clear Entry button will clear the entire expression.

# Expression Calculator

6.  Clears all information on the calculator display.
7.  When you press the square root key, a square root symbol appears in the calculator display.  
*Note: a left parenthesis appears with the square root symbol, and you must end the parenthetical expression if the square root is part of a larger expression.*
8.  When you press the reciprocal key, the last number entered on the calculator screen is updated to display its reciprocal.
9.  To use the fraction key, first you must type a value for the numerator (x) into the calculator display. Then, after pressing the fraction key, the value you entered is placed into the numerator of a fraction. The next value you enter will become the denominator of the expression (y). If you press the equal sign before entering a value for the denominator, a value of 1 is used for the denominator. Fractions will display in simplest form upon pressing the equal sign.
10.  After you have entered your expression to evaluate, the last value in the expression on the calculator screen can be viewed as a fraction or mixed number by pressing the mixed number key.  
*Note: Any number that cannot be expressed as a fraction or mixed number, or cannot be simplified, will not update after pressing the mixed number key.*
11.  Once you've entered a value in the calculator display, you can press the fraction to/from decimal key to alter the form in which the value appears. A fractional value can be converted to display as an equivalent decimal, and a decimal can be converted to display as an equivalent simplified fraction.  
*Note: Not all decimals can be converted into fractions using the button.*
12.  When you select the random button, a decimal between 0 and 1 appears in the calculator display as a decimal with ten digits following the decimal point. The ten decimal places are randomly generated and this feature could be used as a random number generator. If the tenth decimal place is a zero, then only nine values will appear after the decimal place.
13.  When you press the cube root key, a cube root symbol appears in the calculator display.  
*Note: a left parenthesis appears with the cube root symbol, and you must end the parenthetical expression if the cube root is part of a larger expression.*
14.  Once you have entered a value into the calculator display, you can press the squared key to square the current value in the calculator display.

## Expression Calculator

15.  Once you have entered a value into the calculator display, you can press the cubed key to cube the current value in the calculator display.
16.  Once you have entered a value into the calculator display, you can press the x to the y key to use the current value as the base (x) of an exponential expression, and then enter the value of the exponent (y) to be applied to the base.
17.  Once you have entered a value into the calculator display, you can press the % key to convert the current percent value to an equivalent decimal value.
18.  You can press the pi key to enter an approximation for pi into any expression in the calculator display.
- Note: Once you press the equal sign, the approximation for pi is part of the calculation and can no longer be seen as a symbol as part of the expression.*
19.  Once you have entered an expression into the calculator display, you can press the equal key to evaluate the expression.
- Note: Pressing the equal key will evaluate the expression using the order of operations, reading from left to right in the calculator display.*
20.  You can use the plus/minus key to change the value of the last value that appears in the calculator display to its opposite.