

DIMENSION EXAMPLES

Linear Conversions

Convert 16 feet to other dimensions:

Keystroke	Display
[On/C] [On/C]	0.
16 [Feet]	16 FEET
[Conv] [Yds]	5.333333 YD
[Conv] [Feet]	16 FEET 0 INCH
[Conv] [Inch]	192 INCH
[Conv] [Met]	4.8768 M

Square and Cubic Conversions

Convert 25 square feet to other square dimensions:

Keystroke	Display
[On/C] [On/C]	0.
25 [Feet] [Feet] *	25. SQ FEET
[Conv] [Yds]	2.777778 SQ YD
[Conv] [Met]	2.322576 SQ M

Convert 25 cubic feet to cubic yards.

Keystroke	Display
[On/C] [On/C]	0.
25 [Feet] [Feet] [Feet] *	25. CU FEET
[Conv] [Yds]	0.925926 CU YD

*Press [Feet] twice for square feet; press [Feet] three times for cubic feet.

Dimensional Math

Keystroke	Display
[On/C] [On/C]	0.
10 [Inch] [+] 2 [Feet] 5 [Inch] [=]	3 FEET 3 INCH
2 [Feet] [x] 1 [Feet] 2 [Inch] [=]	2.333333 SQ FEET
5 [Feet] [-] 1 [Inch] 3 [/] 4 [=]	4 FEET 10-1/4 INCH
10 [Feet] [÷] 1 [Inch] 1 [/] 4 [=]	96.
59 [Feet] [Feet] [+] 10 [%]	64.9 SQ FEET

"Square-up"/Diagonal

"Square up" (find the diagonal to ensure a perfect square) a concrete pad that has a length of 10 feet and a width of 20 feet.

Keystroke	Display
[On/C] [On/C]	0.
10 [Feet] [Conv] [x] [+]	100. SQ FEET
20 [Feet] [Conv] [x]	400. SQ FEET
[=]	500. SQ FEET
[Conv] [÷]	22 FEET 4-5/16 INCH

MATERIAL EXAMPLES

Material Calculations

The following calculations are based on common industry standards (see "Default Values for Materials") for estimating quantities of materials. You may need to adjust your calculations if you use values other than specified. Also, remember to factor in a waste allowance when ordering materials.

Tons of Gravel

How much gravel do you need to cover a 36' x 11' driveway 2" deep?

Keystroke	Display
[On/C] [On/C]	0.
36 [Feet] [x] 11 [Feet] [x] 2 [Inch] [=]	66. CU FEET
[Conv] [0] (Gravel)	3.18 TN

Number of Tiles

How many tiles do you need to fill a floor measuring 150 square feet? You're not sure of the tile size you're going to use, so in this example, find the number of tiles in various sizes. Note: After converting to Tile, press the [1] key until you reach the desired tile size. The ProjectCalc lists seven of the most popular tile sizes.

Keystroke	Display
[On/C] [On/C]	0.
150 [Feet] [Feet]	150. SQ FEET
[Conv] [1] (Tile)	66.67 (18 in)
[1] (Tile)	150.00 (12 in)
[1] (Tile)	337.50 (8 in)
[1] (Tile)	600.00 (6 in)

[1] (Tile)	1350.00 (4 in)
[1] (Tile)	5400.00 (2 in)
[1] (Tile)	21600.00 (1 in)

Number of Bricks/Blocks for a Wall

Find the number of (face) bricks or concrete blocks needed to do a 40' x 3' wall.

Keystroke	Display
[On/C] [On/C]	0.
40 [Feet] [x] 3 [Feet] [=]	120. SQ FEET
[Conv] [2] (Brick)	822.86 F br
[Conv] [3] (Block)	135.00 bL

Number of Paver Bricks

Find the number of (paver) bricks required for a 3' x 18' walkway.

Keystroke	Display
[On/C] [On/C]	0.
3 [Feet] [x] 18 [Feet] [=]	54. SQ FEET
[Conv] [2] (Brick)	370.29 F br
[2] (Brick)	243.00 P br

Number of 4'x8' Sheets

How many 4' x 8' drywall sheets do you need for a wall measuring 20' 5" x 15'?

Keystroke	Display
[On/C] [On/C]	0.
20 [Feet] 5 [Inch] [x] 15 [Feet] [=]	306.25 SQ FEET
[Conv] [4] (4x8 Sheet)	9.57 Sh

Gallons of Paint

How many gallons of paint will you need to cover a wall that is 100' long x 8' high?

Keystroke	Display
[On/C] [On/C]	0.
100 [Feet] [x] 8 [Feet] [=]	800. SQ FEET
[Conv] [5] (Paint)	2.29 GL

How many square feet will 2 gallons cover?

Keystroke	Display
2 [Conv] [5] (Paint)	700. SQ FEET

Rolls of Wallpaper

Find the number wallpaper rolls needed for a wall measuring 10' 6" x 12'.

Keystroke	Display
[On/C] [On/C]	0.
10 [Feet] 6 [Inch] [x] 12 [Feet] [=]	126. SQ FT
[Conv] [6] (Wallpaper)	2.25 rL

Board Feet Calculations

Find the total board feet for three 2" x 4" x 14' boards:

Keystroke	Display
[On/C] [On/C]	0.
2 [Inch] [x] 4 [Inch] [x] 14 [Feet] [=]	1344. CU INCH
[Conv] [7] (Board Feet)	9.33 bF
[x] 3 [=]	27.99

Number of Studs

How many 16" on-center studs are required for a 15 feet 6-1/2 inch wall?

Keystroke	Display
[On/C] [On/C]	0.
15 [Feet] 6 [Inch] 1 [/] 2	15 FEET 6-1/2 INCH
[Conv] [8] (Studs) *	13. St

*Automatically includes one stud for the end.

Bundles of Roof Shingles

How many bundles of roof shingles will you need to cover a 14' x 11' roof?

Keystroke	Display
[On/C] [On/C]	0.
14 [Feet] [x] 11 [Feet] [=]	154. SQ FEET
[Conv] [9] (Roof Bundle)	4.62 rF bn

FINDING COST OF MATERIALS

Finding Cost of Materials

You can use the ProjectCalc to determine the total cost of a project, if you know the material's cost per unit. See the following examples.

Cost of Paint

How many gallons of paint will you need to cover four (4) walls, if they each measure 10' x 8'? If the paint costs \$21.97 per gallon, what is the total cost?

Keystroke	Display
[On/C] [On/C]	0.
10 [Feet] [x]	10 FEET 0 INCH
8 [Feet] [=]	80 SQ FEET
[x] 4 [=]	320 SQ FEET
[Conv] 5 (Paint) *	0.91 GL
[x] 21.97 [Conv] [*] (Cost) **	19.99

* .91 is just under one gallon

** The cost is just under \$20.00

Cost of Concrete

How much will 1,250 cubic feet of concrete cost if the cost per cubic yard is quoted at \$50? Convert cubic feet to cubic yards. Then find the total cost.

Keystroke	Display
[On/C] [On/C]	0.
1250 [Feet] [Feet] [Feet]	1250. CU FEET
[Conv] [Yds]	46.2963 CU YD
[x] 50 [Conv] [*] (Cost)	2314.81

(If it cost just under \$2,315)

KEY DEFINITIONS

[On/C] — On/Clear Key

Turns power on. Pressing once clears the display. Pressing twice clears all temporary values.

[Off] — Off Key

Turns all power off, clearing all non-permanent registers.

[%] — Percent Key

Four-function percent key.

[+] [-] [x] [÷] [=]

Arithmetic operation keys.

[0] — [9] and [*]

Digits used for keying-in numbers.

Dimension Keys

Entering Square or Cubic

To label a dimension as "square" or "cubic," enter the value, then press the desired unit (of measure) key twice for square and three times for cubic. For example, to enter 25 cubic yards, press 25 [Yds] [Yds] [Yds].

[Yds] — Yards Key

Enters or converts to yards.

[Feet] — Feet Key

Enters or converts to feet as whole or decimal numbers. Also used with the [Inch] and [/] keys for entering Feet-Inch values (e.g., 6 [Feet] 9 [Inch] 1 [/] 2). Repeated presses during conversions toggle between Feet-Inch and Decimal Feet.

[Inch] — Inch Key

Enters or converts to inches. Entry can be whole or decimal numbers. Also used with the [/] key for entering fractional inch values (e.g., 9 [Inch] 1 [/] 2). Repeated presses during conversions toggle between Fractional and Decimal Inches.

[Met] — Meter Key

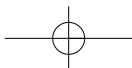
Enters or converts to Meters.

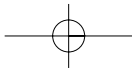
[/] — Fraction Bar Key

Used to enter fractions. Fractions can be entered as proper (1/2, 1/8, 1/16) or improper (3/2, 9/8).

Fraction Resolution

Your calculator is set to display fractional values to the nearest 16th of an inch. 1/64 resolution can be displayed by pressing [/] with the value in the display. The fractional resolution of the calculator can be permanently set by pressing [Conv] [/] with a clear (zero) display. Repeat presses of the [/] will then revolve through the available settings: 1/16, 1/32, 1/64, 1/2, 1/4 and 1/8.





Convert Key Functions

[Conv] — Convert Key

Used with the dimensional keys to convert between dimensions or with other keys to access special functions:

[Conv] [%] — Pi (π) Constant 3.141593

[Conv] [x] — x²

[Conv] [÷] — Square Root (√)

[Conv] [+/-] — Sign (+/-) Toggle

[Conv] [•] — Cost Function

*Cost function allows you to compute a total material cost given a unit dimension and an entered *Per Unit Cost*.

Default Values for Materials

Key (LCD Legend): Value

Gravel (tn) : 1 ton equals 0.77 cubic yards (or equal to 1.3 tons per cubic yard)

Tile: 18 inch, 12 inch, 8 inch, 6 inch, 4 inch, 2 inch and 1 inch sizes (Note: calculator does not adjust for grout)

Brick (F br or P br) : 21 square inch for "Face" bricks or 32 square inch "Paver" bricks. Based on Modular U.S. brick (3-5/8" x 2-1/4" x 7-5/8") including 3/8" mortar (4" x 2-5/8" x 8")

Block (bL) : 128 square inches includes 1/2" mortar

4'x8' Sheet (Sh) : 32 square feet (typically used for drywall or sheet material)

Paint (GL) : 1 gallon covers 350 square feet

Wallpaper (rl) : 1 roll covers 56 square feet (U.S. double roll)

Board Feet (bF) : 1 board ft. = 144 cubic inches

Studs (St) : 16 inch on-center (Note: one stud is automatically added to the end)

Roof Bundles (rF bn) : 1 bundle equals 33.33 square feet

Memory

[Conv] [+](M+) — Store value in semi-permanent memory (e.g., 150 **[Conv] [+]**). Semi-permanent means the value is cleared when the calculator is turned off.

[Conv] [=](MR) — Recall memory value (e.g., if 150 has been stored in Memory, pressing **[Conv] [=]** will display 150).

[Conv] [On/C](MC) — Clears memory value.

[Off] — Clears memory value.

Reset

If your calculator should ever "lock up," press Reset — a small hole located above the **[Met]** key/upper right — using the end of a paper clip.

Accuracy

The normal display is seven digits; fraction display four digits. Fraction resolution displays values to the nearest 16th of an inch, unless changed by user. Each calculation is carried out internally to ten digits.

Auto Shut-Off and Batteries

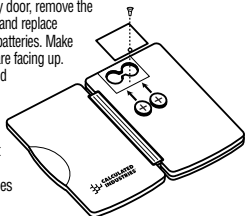
Auto Shut-Off: After 8-12 minutes of non-use. Batteries Included: Two LR-43 batteries.

Battery-Life: 575 hours of actual use.

To replace the batteries, use a small Phillip's head screwdriver (or you can also use a screwdriver found in eyeglass repair kits) and unscrew the single screw in the center of the battery door, located on the back of the calculator (see diagram).

Carefully remove the battery door, remove the old batteries from the clips and replace them with two new LR-43 batteries. Make sure the positive sides (+) are facing up. Replace the battery door and re-attach the screw.

Note: Replacement LR-43 batteries are available at most discount or electronics stores. Or, call Calculated Industries at 1-800-854-8075.



REPAIR AND RETURN

WARRANTY, REPAIR AND RETURN INFORMATION

Return Guidelines:

1. Please read the **Warranty** in this User's Guide to determine if your Calculated Industries calculator, measuring device or electronic tool remains under warranty **before** calling or returning any device for evaluation or repairs.
2. If your calculator won't turn on, try pressing the "Reset Button" first. If it still won't turn on, check the batteries as outlined in the User's Guide.
3. If there is a black spot on the LCD screen, **THIS IS NOT A WARRANTY DEFECT**. The unit can be repaired. Call for a repair quote before returning your unit.
4. If you need more assistance, please go to our website at www.calculated.com and click on Support, then Repair Services FAQs.
5. If you believe you need to return your calculator, please speak to a Calculated Industries representative for additional information!

Call Toll Free: 1-800-854-8075

WARRANTY

Calculated Industries ("CI") warrants this product against defects in materials and workmanship for a period of one (1) year from the date of original consumer purchase in the U.S. If a defect exists during the warranty period, CI at its option will either repair (using new or remanufactured parts) or replace (with a new or remanufactured calculator) the product at no charge.

THE WARRANTY WILL NOT APPLY TO THE PRODUCT IF IT HAS BEEN DAMAGED BY MISUSE, ALTERATION, ACCIDENT, IMPROPER HANDLING OR OPERATION, OR IF UNAUTHORIZED REPAIRS ARE ATTEMPTED OR MADE. SOME EXAMPLES OF DAMAGES NOT COVERED BY WARRANTY INCLUDE, BUT ARE NOT LIMITED TO, BATTERY LEAKAGE, BENDING, OR VISIBLE CRACKING OF THE LCD, WHICH ARE PRESUMED TO BE DAMAGES RESULTING FROM MISUSE OR ABUSE.

Warranty Repair Service — U.S.A.

To obtain warranty service in the U.S., ship the product postage paid to Calculated Industries (address and web site listed on opposite page). Please provide an explanation of the service requirement, your name, address, day phone number and dated proof of purchase (typically a sales receipt). If the product is over 90 days old, include payment of \$6.95 for return shipping and handling within the contiguous 48 states. (Outside the contiguous 48 states, please call CI for return shipping costs.)

A repaired or replacement product assumes the remaining warranty of the original product or 90 days, whichever is longer.

Non-Warranty Repair Service — U.S.A.

Non-warranty repair covers service beyond the warranty period or service requested due to damage resulting from misuse or abuse.

Contact Calculated Industries to obtain current product repair information and charges. Repairs are guaranteed for 90 days.

Repair Service — Outside the U.S.A.

To obtain warranty or non-warranty repair service for goods purchased outside the U.S., contact the dealer through which you initially purchased the product. If you cannot reasonably have the product repaired in your area, you may contact CI to obtain current product repair information and charges, including freight and duties. (CI's address and web site are listed on opposite page)

Disclaimer

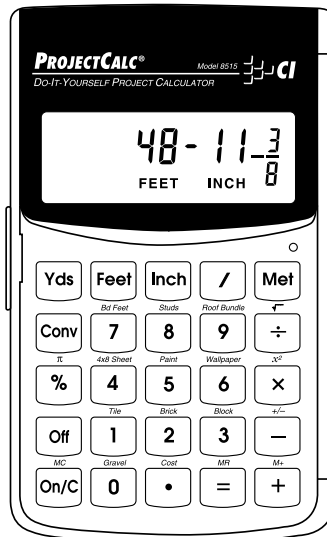
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USER'S GUIDE

PROJECTCALC®



Calculated Industries
 4840 Hytech Drive
 Carson City, NV 89706 U.S.A.
Technical Support Line:
 1-775-885-4975
 Fax: 1-775-885-4949
 techsup@calculated.com
<http://www.calculated.com>

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