USER'S GUIDE

Kitchen Calc RECIPE CALCULATOR WITH DIGITAL TIMER



Model 8300



TABLE OF CONTENTS

Cooking Unit Conversions

Converting Fractions to Decimals	0
Weight/Volume Conversions	9
Recipe Scaling	13
Temperature Conversions	18
Basic Math Cooking Units	18
Displaying Actual Fractions vs. "Kitchen Fractions"	19
Using the Timer	21
Errors and Reset	24
KEY DEFINITIONS	

RcI

Basic Function Keys

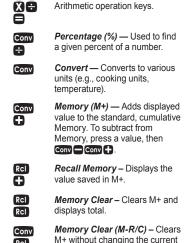
Qn/C On/Clear Kev - Turns power on. Pressing once clears the display. Pressing twice clears all temporary values.

Off — Turns all power off. Clears all non-permanent values.

Recall — Used with other kevs to recall stored values and

settings (e.g., RcI Recipe).

Keys used for entering numbers. and



RcI

(cont'd)

Change Sign (+/-) — Toggle displayed value between negative and positive value.

display.

(cont'd)



Clear Recipe Memory —

Clears the values entered into the # of Servings and Portion Size keys, as these values are permanent (the values remain stored after you turn your calculator off).



Clear All — Clears all stored values, including M+, serving and portion sizing.



Fraction Bar Key — Used to enter fractions (e.g., 1 / 3 cup).



Remainder (Rnd +/-) —
Displays the fractional remainder (if applicable), due to calculator rounding

to calculator rounding.

This is an optional calculation and should be used if you want more precise measurements.

When the calculator has rounded by more than 5%, the display will read ^Rnd (it has rounded up) or vRnd (rounded down).

Note: If you want to minimize rounding altogether, convert to the next smallest cooking unit (e.g., if it reads Tablespoons, convert to Teaspoons).

Timer

Built-in Cooking Timer —
Accesses the count up/count

down timer.

the ingredient).

Cooking Units

Enter or convert to:

Dry Ounces

fl oz Fluid Ounces

cup Cups

tbsp Tablespoons
tsp Teaspoons

(cont'd)

- (cont'd) Conv (0) g – gram
- Conv 1 kg kilogram °C - Celsius Conv 2
- °F Fahrenheit
- Conv 3 Conv 4 liter
- cl centiliter (100 ml) Conv 5
- Conv 6 ml - milliliter
- Conv 7 gal - gallon
- Conv 8 quart Conv 9 pint
- dash Conv
- pinch Conv =

Recipe Scaling Keys

- Recipe's Number of Servings Recipe # Servings - Enters the recipe's stated number of servings.
 - Actual Number of Servings Enters your desired number of servinas.
- Recipe's Portion Size Enters Conv the recipe's stated per-person portion size.



Actual Portion Size —

Enters your desired per-person portion size.



Adjust Recipe —

Calculates adjusted ingredient sizes based on entered number of servings and/or portion size.



Recipe Scale Factor —

Displays the ratio used for adjusting ingredients.

Note: Values entered in Recipe Scaling Keys are stored permanently, so use Conv X to clear them. Also, to review stored values, press call and the applicable key (e.g., Col (Col)).

COOKING UNIT CONVERSIONS

With the KitchenCalc, converting cooking or other unit measurements is quick and easy. To convert cooking units, enter the quantity. press the cooking unit key, and then press the Conv key and the desired unit of measure key. To enter fractions (e.g., 1/2 cup), use the key, Also, some units (like gallons) don't have dedicated keys, but are second functions of primary keys. They can be accessed using the Conv key.

Convert 1-1/2 tsp. to tbsp.:

KEYSTROKE

11/2 tsp Conv tbsp 0-1/2 TBSP Convert 8 fl. oz. to cups: KEYSTROKE DISPLAY 3 fl oz Conv cup 1 CUP

DISPLAY

Convert 5-1/2 quarts to gallons:

DISPLAY KEYSTROKE (5) 1 / (2) Conv (8) (quart) 5-1/2 OT Conv 7 (gal) 1-3/8 GAI

Convert 32 dry oz. to lbs.: KEYSTROKE DISPLAY 3 2 dry oz Conv Ib 2 I B

CONVERTING FRACTIONS TO DECIMALS

To convert cooking measurement units between fraction and decimal values, follow the example below:

Enter 1/3 cup and convert to decimal, then back to fraction:

KEYSTROKE	DISPLAY

Note: If the value entered is not a "kitchen fraction," (e.g., 1/3 TBSP) the next press of the cooking unit key (e.g., 155) will display the rounded "kitchen value" (e.g., 0-1/2 TBSP) and a third press will display the actual decimal value (e.g., 0.333 TBSP).

WEIGHT/VOLUME CONVERSIONS

Cooking measurements are based on either weight or volume. Conversions between weight and volume depend on the density of the related ingredient. You can use the conversion chart on the following pages to adjust a Weight to Volume conversion based on the ingredient's density. The chart lists several common ingredients and gives you an Adjustment Factor that you can use to calculate the actual Volume of the particular ingredient.

So, if you've adjusted a recipe that now calls for 2 ½ lbs of butter, you can quickly determine how many cups of butter you'll need for the recipe.

KEYSTROKE

DISPLAY

Enter 2 ½ lbs., and convert pounds to cups:

(2) (1) (2) (b) Conv Cup 4-3/4 CUP

Find the conversion factor (1.042) on the chart and multiply by that for your answer:

X1•042**目** 5 CUP

Note: The calculator's built-in Adjustment Factor is based on the density of water, which is often used as a standard to derive the weight of a volume specification. One cup of water weighs 236.6 grams (about 8 ounces).

(cont'd)

1.973	TBSP Spices, chili powder	TBSP	7.5
0.817	TSP Salt, table	TSP	6.0
0.822	Salt, table	TBSP	18.0
0.810	Salt, table	Cup	292.0
1.127	Potatoes, mashed, home-prepared, whole milk added	Cup	210.0
0.925	Peanut butter, smooth, vitamin and mineral fortified	TBSP	16.0
0.917	Peanut butter, smooth, vitamin and mineral fortified	Cup	258.0
1.479	Onions, raw, chopped	Cup	160.0
2.171	Nuts, pecans, chopped	Cup	109.0
	added vitamin A and D		
0.962	Milk, reduced fat, fluid, 2% milkfat, protein fortified, with	Cup	246.0
1.065	Leavening agents, baking soda	TSP	4.6
0.986	Leavening agents, baking powder, low-sodium	Cup	240.0
0.980	Leavening agents, baking powder, low-sodium	TSP	5.0
0.987	Leavening agents, baking powder, low-sodium	TBSP	15.0

m+ 1,11

	1.893	Wheat flour, all-purpose, enriched, bleached	Cup	_
_	1.000	Water, tap, drinking	Cup	-
	1.167	Vanilla extract	TSP	
	1.138	Vanilla extract	TBSP	
	1.167	Sugars, granulated	TSP	
	1.183	Sugars, granulated	Cup)
	1.557	Strawberries, raw, halves	Cup	_
	2.333	Spices, pepper, black	TSP	
	2.313		TBSP	
	2.227	Spices, nutmeg, ground	TSP	
	2.114	Spices, nutmeg, ground	TBSP	
_	1.885	Spices, cinnamon, ground	TSP	

2.6 7.0 2.2 6.4 2.1 152.0 200.0 4.2 13.0 4.2 236.6

RECIPE SCALING

CHANGING THE NUMBER OF SERVINGS

Increasing Number of Servings

You need your brownie pudding cake recipe to yield 12 Servings instead of 8. The recipe contains the following ingredients:

- 1-1/4 cups flour
- 1-1/2 cups sugar
- 1/2 cup unsweetened cocoa powder

Convert the ingredients to 12 Servings:

- 2 tsp. baking powder
- 3 tbsp. butter or margarine

KEYSTROKE

DISPLAY

1. Clear recipe Memory:

Conv X (Clr Recipe)

0.

Enter recipe's number of Servings: Rcp# 8.

Recipe #

Enter desired number of Servings: 2 Actual # Act # 12.

4. Enter ingredient amounts and Adjust Recipe:

1 / 4 cup Adjust Recipe	Rcp Adj 1-7/8 CUF
1 / 2 cup Adjust Recipe	Rcp Adj 2-1/4 CUF
Cup Adjust Recipe	Rcp Adj 0-3/4 CUF
2 tsp Adjust Recipe	Rcp Adj 3 TSF
3 tbsp Adjust Recipe	Rcp Adj 4-1/2 TBSF

Decreasing Number of Servings

You'd like to decrease your chicken recipe from six Servings to four Servings. The recipe contains the following ingredients:

- 2 tsp. dried rosemary leaves
- 1/2 tsp. salt
- 1/4 tsp. black pepper
- 3/4 lb. carrots, etc.

KEYSTROKE DISPLAY

1. Clear recipe Memory:

Conv X (Clr Recipe)

0.

Enter recipe's number of Servings:

6 Recipe # Servings

Rcp# 6.

3. Enter desired number of Servings:

Actual # Servings

Act # 4.

4. Enter ingredient amounts and Adjust Recipe:

2 tsp Adjust Recipe

Rcp Adj 1-3/8 TSP

(cont'd)



Rcp Adj 0-3/8 TSP ^RND *



Rcp Adj 0-1/8 TSP vRND *



Rcp Adj 0-1/2 LB

Note: The displayed values are "kitchen fractions," or rounded fractions. Two more presses of will display the actual fraction and decimal values, respectively.

CHANGING THE PORTION SIZE

Increasing Portion Size

You're making a stir-fried beef recipe, which is for six 4-oz. Servings. If you want to increase the Portion Size (per person) from 4 oz. to 6 oz., what are the adjusted ingredients?

- 1 lb. flank steak
- 2 tbsp. Chinese cooking wine
- 1 tbsp. minced garlic
- 2 tsp. soy sauce
- 3/4 cup chicken stock

Convert the ingredients:

KEYSTROKE DISPLAY

Clear recipe Memory:

Conv X (Clr Recipe) 0.

2. Enter recipe's Portion Size:

4 Conv Recipe # Rcp Sz 4.

Enter desired Portion Size:

6 Conv Actual Servings Act Sz 6.

4. Enter ingredient measurements and Adjust Recipe:

1 lb Adjust Recipe Rcp Adj 1-1/2 LB

2 tbsp Adjust Rcp Adj 3 TBSP

1 tbsp Adjust Rcp Adj 1-1/2 TBSP
2 tsp Adjust Rcp Adj 3 TSP

3 / 4 Cup Adjust Rcp Adj 1-1/8 CUP

CHANGING BOTH SERVING AND PORTION SIZE

Decreasing Portion Size and Increasing Number of Servings

Using the same recipe, you now want to decrease your Portion Size from 6 oz. to 4 oz., but increase your number of Servings from 4 to 8. What are the adjusted ingredients?

Convert the ingredients:

KEYSTROKE DISPLAY

1. Clear recipe Memory:

Conv X (Clr Recipe) 0.

2. Enter recipe's number of Servings:

Rcp # 4.

3. Enter desired number of Servings:

8 Actual Servings Act #8.

4. Enter recipe's Portion Size:

6 Conv Recipe # Servings Rcp Sz 6.

5. Enter desired Portion Size:

4 Conv Actual Servings Act Sz 4.

Enter ingredient measurements and Adjust Recipe:

1 Ib Adjust Rcp Adj 1-1/3 LB

2 tbsp Recipe Rcp Adj 2-1/2 TBSP vRND *

1 tbsp Adjust Rcp Adj 1-1/2 TBSP ^RND **

1 tbsp Adjust Rcp Adj 1-1/2 TBSP ^RND **
2 tsp Adjust Rcp Adj 2-5/8 TSP

(2) tsp Adjust Rcp Adj 2-5/8 TSP

*Convert to teaspoons (Conv tsp = 8 TSP) to avoid the remainder.

**Again, convert (Conv tsp = 4 TSP).

Note: To review your stored Serving or Portion Size values, use the Rcl key. For example, to recall desired Portion Size, press Rcl Conv School

TEMPERATURE CONVERSIONS

Convert 30° Celsius to Fahrenheit:

DISPLAY

KEYSTROKE

3 0 Conv (2) (°C)

30° C

Conv (3) (°F)

86.º F

Convert 100° Fahrenheit to Celsius:

KEYSTROKE

100conv3conv2

DISPLAY 37.8° C

BASIC MATH WITH COOKING UNITS

What is 1-3/4 cups + 2-1/3 cups?

KEYSTROKE

DISPLAY

13/4 cup + 21/3 cup =

4-1/8 CUP

What is 1/8 tsp. times 6?

KEYSTROKE

(1) / (8) tsp (X (6) =

0-3/4 TSP

What is 2 tbsp. divided by 3?

DISPLAY

KEYSTROKE

2 tbsp ÷ 3 = Act 0-2/3 TBSP

Note: The results of math calculations will be

Note: The results of math calculations will be shown as actual, not rounded, "kitchen fraction" values (see following section for more details).

DISPLAYING ACTUAL FRACTIONS VS. "KITCHEN FRACTIONS"

The KitchenCalc displays both actual fractions and "kitchen fractions" during conversions or recipe scaling calculations. That is, if the answer is 3/4 TBSP, it knows there is no "3/4" of a tablespoon, or measuring spoon, available to measure with: instead, it will show the rounded answer (e.g., 1 TBSP). For more precise measuring, you can then press the Conv 1 kevs to display the remainder amount to add or subtract, or simply convert the value to the next lowest cooking unit (e.g., TSP), to avoid the remainder altogether. If you do not want to view "kitchen" values, you can display actual values by pressing the cooking unit key again.

Important Note: The calculator will tell you when an actual value is displayed by displaying Act.

Available Kitchen Fractions

TABLESPOON	TEASPOON	CUP
1 TBSP	1 TSP	1 CUP
1/2 TBSP	7/8 TSP	7/8 CUP
	3/4 TSP	3/4 CUP
	5/8 TSP	2/3 CUP
	1/2 TSP	1/2 CUP
	3/8 TSP	1/3 CUP
	1/4 TSP	1/4 CUP
	1/8 TSP	1/8 CUP

Note: 1/3 TSP, 2/3 TSP, 1/8 TBSP, 1/4 TBSP, 1/3 TBSP, 3/8 TBSP, 5/8 TBSP, 2/3 TBSP, 3/4 TBSP, 7/8 TBSP, 3/8 CUP and 5/8 CUP are not available kitchen fractions.

Basic Math – Displaying Actual vs. Kitchen Fractions

Divide 5 -1/2 tbsp. by 2:

KEYSTROKE DISPLAY

5172 tbsp ÷ 2=

Act 2-3/4 TBSP (Actual Fraction)

tbsp 3 TBSP ^RND (Kitchen Fraction)*

tbsp Act 2.75 TBSP (Actual Decimal Value)

*Here, the calculator rounded up to a unit you can actually measure with.

Conversions - Displaying Actual vs Kitchen Fractions

Convert 2-3/4 tbsp. to a "kitchen fraction." actual decimal value, then return to the entered value:

KEYSTROKE

DISPLAY

23/4 tbsp

2-3/4 TBSP

Conv tbsp 3 TBSP ^RND (Kitchen Fraction)* tbsp Act 2.75 TBSP (Actual Decimal Value)

Act 2-3/4 TBSP (Actual Fraction)

*Here, the calculator rounded up to a unit you can actually measure with.

USING THE TIMER

Using the Timer - Press Timer to access the built-in Timer or Timer mode. The timer can be set to count down from 24 hours or less. The Timer will count up to 12 hours

Count Up and Pause Timer - While displaying a stopped/paused timer. press Timer to start counting up. While displaying a running timer, press Timer or On/C to pause or stop counting.

Count Down and Stop Timer - To set the timer to count down, follow this example:

Set the Timer for a baking time of 1 hour. 30 minutes:

KEYSTROKE	DISPLAY
Access timer:	HR MIN SEC
Timer	0: 00: 00
Enter 1 hour:	HR MIN SEC
	0: 00: 01
Enter 30 min.:	HR MIN SEC
30	0: 01: 30
Enter 0's for sec.:	HR MIN SEC
(0)(0)	1: 30: 00
Start Timer:	HR MIN SEC
Timer	1: 30: 00

Note: Once the countdown reaches zero, the calculator will begin to beep and the Timer will start counting up for up to an additional hour, displaying the "+" sign to remind you of the amount of time elapsed since the countdown reached zero

Clear the Timer Display - While displaying a stopped/paused timer, press On/C.

Exit the Timer - To clear and exit the Timer mode, press On/C until 0. is displayed. To exit the Timer Mode without clearing a paused timer or without stopping a running timer, press any key other than On/C and Timer.

(cont'd)

(cont'd)

Note: If the Timer mode is exited while the timer is still running, the clock symbol will continue to blink on the display to remind you the Timer is running.

Using the Calculator While Timing – While displaying a running timer, press any key other than **OVE** and **Timer** to exit the Timer mode and to continue using the calculator functions without interfering with Timer operations.

Note: The clock symbol will continue to blink on the display to remind you the Timer is running when in "calculator" mode.

Timer Beep - After a count-down Timer is

finished counting down (zero reached), it will begin to beep. The Timer will beep for 10 minutes. To stop the Timer beep, press the Timer key.

Furning Calculator Off (Running Timer)

Turning Calculator Off (Running Timer)

– To turn the calculator off while the Timer is running, press Conv On/O Conv On/O. The first press of Conv On/O beeps and reminds you of the running Timer; the second press turns the calculator off.

Auto Shut-Off (Running Timer) – As long as the Timer is running, the unit will not auto shut-off. However, once the Timer reaches the maximum running time and expires (see max. times below), the calculator will auto shut-off after about 8-12 minutes of non-use.

- Count-up timer: stops upon reaching 12 hours
- Count-down timer: after countdown reaches zero, the Timer starts counting up and stops upon reaching 1 hour.

ERRORS AND RESET

Errors

When an invalid conversion is attempted, the calculator will display the word **Sorry** for a few seconds before returning to the original display. When an invalid entry or calculation is made. **Error** will be displayed.

Reset

If your calculator's display should ever freeze or "lock up," press Reset, a small hole located above the dry oz key, using the end of a paper clip.

AUTO SHUT-OFF AND BATTERIES:

Auto Shut-Off:

After 8-12 minutes of non-use (no running Timer).

Batteries Included:

One CR1620 battery.

Battery-Life:

575 hours of actual use.

To replace the batteries, use a small Phillip's head screwdriver (or 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. Carefully remove the battery door, remove the old battery and replace it with one new CR1620 battery. Make sure the positive side (+) is facing up. Replace the battery door and re-attach the screw.

Note: Replacement CR1620 battery is available at most discount or electronics stores. Or, call Calculated Industries at 1-800-854-8075.

For complete Warranty, Repair and Return information, go to www.calculated.com.

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Designed in the U.S.A.

Printed in China



QUICK REFERENCE GUIDE

Cooking Conversions

KEYSTROKE	DISPLAY
On/C On/C	0.
6 tsp Conv tbsp	2 TBSP
Conv cup	0-1/8 CUP

Recipe Scaling

Your cookie recipe makes 12. You need 36. Find the adjusted ingredient measurements, if the original recipe lists:

- 1-1/2 cups flour
- · 1 tsp. baking soda
- · 3/4 cup brown sugar
- 1/2 cup granulated sugar
 - 2-2/3 cups oats, etc.

KEYSTROKE	DISPLAY
Conv X	0.
Recipe Servings	Rcp # 12.
3 6 Actual # Servings	Act # 36.
1 2 cup Adjust Recipe	Rcp Adj 4-1/2 CUP
1 tsp Adjust Recipe	Rcp Adj 3 TSP
3 / 4 cup Adjust Recipe	Rcp Adj 2-1/4 CUP
1 / 2 cup Adjust Recipe	Rcp Adj 1-1/2 CUP
23/4 cup Adjust Recipe	Rcp Adj 2-1/8 QT

To view answer in cups instead:

Conv Cup Rcp Adj 8-1/4 CUPS