

FORMULAS

Formulas are created using ingredients and in some cases other (base) formulas. Expenses such as labor can be entered at this level also. This is the first step above raw ingredients in the evolution of a finished product ready to sell .

Formulas

Active | Inactive

Name:	Category	Pounds	Kilograms	Grams
A&S CAJUN SPICE	Breads	11.50	5.216	5,216
A&S CRACKED WHEAT	Breads	24.03	10.900	10,900
A&S FCB	Breads	20.69	9.384	9,384
A&S OLIVE	Breads	24.03	10.900	10,900
A&S PESTO	Breads	22.66	10.277	10,277
A&S PUMPERNICKEL	Breads	10.66	4.834	4,834
A&S RAISIN WALNUT	Breads	6.75	3.062	3,062
A&S SAVORY TOMATO	Breads	25.78	11.694	11,694
A&S SOUR DOUGH BREAD	Breads	16.69	7.569	7,569
A&S SPICE LOAF BREAD	Breads	10.00	4.536	4,536
A&S SPONGE	Doughs	16.59	7.527	7,527
ALMOND FILLING	Fillings	99.00	44.906	44,906
ALMOND FILLING # 1 EVERIX	Fillings	18.00	8.165	8,165
ALMOND MACAROONS - MELANIE	Cookies	8.39	3.806	3,806
ANGEL FOOD CAKE - CMB	Cakes	28.69	13.012	13,012

+ Add ▲ Change - Delete

Display Used In Copy Print Close Help

First create a formula and enter the name.

Formula Will Be Changed (CHOCOLATE CHIP COOKIES)

Formula | Ingredients | Instructions | Expenses | Traveler

Formula Name:

Category:

Original From:

Formula is Active

Baker's Percentage

Use Baker's Percentage for this formula

Calculate formula using:

Total Flour Weight to Use: Oz:

Total Weights

Weight Loss Percent:

Lbs. and Oz: 12 0.25

Pounds: 12.0156

Kilograms: 5.450

Grams: 5,450

Costs

Ingredients: 8.8316

Expenses: 0.0000

Not Otherwise Covered:

Total Cost: 8.8316

Per Pound: 0.7350

Per Ounce: 0.0459

Per Kilogram: 1.6204

Per Gram: 0.0016

OK Cancel Help

Enter the ingredients for this formula.

Formula Will Be Changed (CHOCOLATE CHIP COOKIES)

Formula | **Ingredients** | Instructions | Expenses | Traveler

Ingredient	Bakers %	Measure	Qty	Oz	Costs	Notes
SUGAR		Lbs. & Oz.	1	8.50	0.5199	
SUGAR BROWN		Lbs. & Oz.	1	8.50	0.6202	
NULOMOLINE		Lbs. & Oz.		4.00	0.1545	
SODA		Lbs. & Oz.		1.00	0.0471	
SHTG MFB		Lbs. & Oz.	2	2.00	1.2750	
CREAM OF TARTER		Lbs. & Oz.		0.25	0.0002	
EGG		Lbs. & Oz.	1		0.4287	
FLOUR CAKE		Lbs. & Oz.	2	8.00	0.4460	
CHOC CHIPS		Lbs. & Oz.	3		5.3400	

Legend + Add ▲ Change - Delete

✓ OK ✗ Cancel ? Help

The total weight is 12 lbs and .25 oz. This formula will make approx 8 dozen, 2 oz. cookies. (weight before baking)

Next look at the scale weights for the formula. (The button for this screen is at the bottom left corner of the edit formula screen.) All weights used in The Mixing Bench are pre-cooked weights. (See “Things you absolutely have to know” in the Help file.)

Below you will see three scale weights for the Chocolate Chip Cookie formula.

1. Each cookie weighs 2 oz.
2. A Dozen weighs 1 lb. 8 oz.
3. A Gross weighs 18 lbs

Scale Weights for (CHOCOLATE CHIP COOKIES)

Description	Measure	Qty	Oz
Each Cookie (1)	Lbs. & Oz.		2.00
Dozen Cookies (12)	Lbs. & Oz.	1.0000	8.00
Gross (144)	Lbs. & Oz.	18.0000	

+ Add ▲ Change - Delete

Close ? Help

When viewing the Chocolate Chip formula using the Display Formula window, these weights are used to calculate the batch size required to produce the correct number of items.

Display Formula

CHOCOLATE CHIP COOKIES

Batch Size: Custom

Ingredient	Measure	Qty	Oz	Notes
SUGAR	Lbs. & Oz.	1	8.50	
SUGAR BROWN	Lbs. & Oz.	1	8.50	
NULOMOLINE	Lbs. & Oz.		4.00	
SODA	Lbs. & Oz.		1.00	
SHTG MFB	Lbs. & Oz.	2	2.00	
CREAM OF TARTER	Lbs. & Oz.		0.25	
EGG	Lbs. & Oz.	1	0.00	
FLOUR CAKE	Lbs. & Oz.	2	8.00	
CHOC CHIPS	Lbs. & Oz.	3	0.00	

Weight Loss %: 0.0%

Lbs_Oz: 12.0000 0.25

Pounds: 12.0156

Kilograms: 5.4502

Grams: 5,450.1958

Measure: Lbs. & Oz.

Lbs: 18.00 Oz: 0.00

Yield Qty: 0.6675

Custom Batch Size

1.0000

← Step = 1.0000 →

Print

Close Help

[View Instructions](#)

On the Display Formula screen we have chosen the weight that was entered for a gross of cookies by clicking on the hand next to the measure field. You can see in the Yield Qty that this formula only makes slightly more than half a gross and we need to make 20 Gross.

Display Formula

CHOCOLATE CHIP COOKIES

Batch Size: Custom

Ingredient	Measure	Qty	Oz	Notes
SUGAR	Lbs. & Oz.	45	14.04	
SUGAR BROWN	Lbs. & Oz.	45	14.04	
NULOMOLINE	Lbs. & Oz.	7	7.84	
SODA	Lbs. & Oz.	1	13.96	
SHTG MFB	Lbs. & Oz.	63	10.67	
CREAM OF TARTER	Lbs. & Oz.		7.49	
EGG	Lbs. & Oz.	29	15.38	
FLOUR CAKE	Lbs. & Oz.	74	14.44	
CHOC CHIPS	Lbs. & Oz.	89	14.13	

Weight Loss %: 0.0%
Lbs_Oz: 360.0000 0.00
Pounds: 360.0001
Kilograms: 163.2933
Grams: 163,293.3170

Measure: Lbs. & Oz.
Lbs: 18.00 Oz: 0.00
Yield Qty: 20.0000

Custom Batch Size

29.9610

Step = 0.0010

Print

View Instructions

Close

Help

Use the Custom Batch Size “Spinner” and adjust the batch size. Watch the Yield Qty as you spin the batch size with the mouse or the arrow keys on the keyboard. The “Step” adjuster moves the decimal place and changes the size of each “step”. Stop spinning when the Yield is as close to 20 as you can get. Don’t forget to change the step for very small adjustments. We have changed this batch size to make 20 gross of cookies. This was all done in about 15 seconds and without math errors. We could have just as easily chosen the weight for 1 cookie (2 oz) and made 2880 cookies. The results are the same.

PRODUCTS

Products are created using Formulas, Supplies, Expenses, and Additional Ingredients.

The screenshot shows a software window titled "Products" with a sub-tab "Below Margin". It contains a table with three columns: "Product Name", "Category", and "Yield". The table lists various products such as "1/4 SHEET CAKE", "A&S COUNTRY FRENCH", and "ALMOND MACAROONS". Below the table is a toolbar with navigation icons and action buttons: "Add", "Change", "Delete", "Legend", "Print", "Close", and "Help". A red arrow points to the "Add" button.

Product Name	Category	Yield
1/4 SHEET CAKE	Cakes	1
A&S COUNTRY FRENCH	Breads	20
A&S CRACKED WHEAT	Breads	17
A&S PESTO	Breads	1
A&S PUMPERNICKEL	Breads	8
A&S RAISIN WALNUT	Breads	3
A&S SAVORY TOMATO	Breads	17
A&S SPICE BREAD	Breads	4
ALMOND MACAROONS	Cookies	912
ALMOND SQUARES	Cookies	128
ANGEL FOOD CAKE - LARGE	Cakes	1
ANGEL FOOD CAKE - SMALL	Cakes	1
APPLE BARS	Cookies	96

Create a Product by clicking the Add button.

Product Will Be Changed (CHOCOLATE CHIP COOKIE)

Base Product | Formulas | Extra Ingredients | Expenses | Supplies | Inst. / Desc. | Packaging (Sold By)

Product Name:

Category:

Yield:

Show On Products List

EACH ITEM WEIGHS

Lbs. & Oz: 0 2.00

Kilograms: 0.057

Grams: 57

TOTAL WEIGHTS

Lbs. & Oz: 12 0.25

Kilograms: 5.450

Grams: 5,450

COSTS

Formulas: 8.8316

Extra Ingredients: 0.0000

Supplies: 0.0000

Expenses: 0.0000

Not Otherwise Covered:

Total Base Cost: 8.8316


Per Pound: 0.7350

Per Ounce: 0.0459


Per Kilogram: 1.6204


Per Gram: 0.0016

Per Item: 0.0920

 Legend

 OK

 Cancel

 Help

Enter the Category and the Yield amount for this product. The yield amount is determined by the size of the formula and ingredients that are entered. In this example we will use the entire Chocolate Chip Cookie formula which makes approx 8 Dozen cookies so our yield will be 96.

Product Will Be Changed (CHOCOLATE CHIP COOKIE)

Base Product | Formulas | Extra Ingredients | Expenses | Supplies | Inst. / Desc. | Packaging (Sold By)

Formula Name:	Measure	Qty	Oz	Cost This Product	Grams
CHOCOLATE CHIP COOKIES	Lbs. and Oz.	12	0.25	8.8316	5,450

Record Will Be Changed

Formula Name: CHOCOLATE CHIP COOKIES

Measure:

Lbs: Oz:

Cost This Product: 8.8316

OK Cancel Help

Legend

OK Cancel Help

The next step is Packaging for the product. This is how the product is (Sold By) and does not have to include an actual package. This is where your profits are figured.

Product Will Be Changed (CHOCOLATE CHIP COOKIE)

Base Product | Formulas | Extra Ingredients | Expenses | Supplies | Inst. / Desc. | Packaging (Sold By)

Sold By	Measure	Weight	Oz	Selling Price	W	Profit
EACH	Lbs. & Oz.		2.00	0.19		0.10
Dozen	Lbs. & Oz.	1	8.03	2.79		1.69
Gross (144)	Lbs. & Oz.	18	0.38	120.44	(W)	107.19

Legend

OK Cancel Help

Enter a description for how the package is sold and the number of items in the package. The weight for each item is automatically figured from the Base Product using the total weight and the yield amount.

Package Will Be Changed (CHOCOLATE CHIP COOKIE)

General | Expenses | Supplies | Instructions

How Sold Description: Retail
 Wholesale

Items in package:

Weight Measure:

Weight for each item: 2.00 Oz

Package Weight: 1 Lb 8.03 Oz

Supply Costs:

Expenses Costs:

Your Cost Per Item: 0.0920

Package Your Cost: 1.1040

Package Selling Price:

Minimum Margin %:

Actual Margin %:




Mark up %:

Times Cost:

Not Otherwise Covered:

Profit: 1.6860

Show On Products List

The Package Selling Price, Actual Margin, Markup and Times Costs fields are interactive. Change one and the other fields will change automatically. (For Example: Enter the Actual Margin you want to make and the Selling Price will be adjusted to match the margin. --or-- Enter the current Selling Price and the others will change.)