RISE BAKING LAB

Bakers Math 101

Basic Concepts of Baker's Math

Concept	Description
Percentages as Ra-	Ingredients are expressed as a per-
tios	centage of the total flour weight.
Base Ingredient - Flour	Flour is always 100% (or 100 parts).
Calculating Ingredient	Multiply the flour's weight by the per-
Weights	centage of each ingredient.

Simple Recipe Calculation

Ingredient	Percentage	Calculation for 1000g Flour	Resulting Weight
Flour	100%	1000g x 1	1000g
Water	70%	1000g x 0.70	700g
Salt	2%	1000g x 0.02	20g
Yeast	1%	1000g x 0.01	10g

Complex Recipe Calculations (500g Total Flour)

Ingredient	Percentage	Calculation for 500g Flour	Resulting Weight
Whole Wheat Flour	50%	500g x 0.50	250g
White Flour	50%	500g x 0.50	250g
Water	74%	500g x 0.74	370g
Cranberries	20%	500g x 0.20	100g
Butter	5%	500g x 0.05	25g
Orange Zest	2%	500g x 0.02	10g
Salt	2%	500g x 0.02	10g
Yeast	1%	500g x 0.01	5g

Percentages as decimals for Calculations

Percentage	Decimal Equivalent	
100%	1.00	
50%	0.50	
2%	0.02	

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Advantages of Baker's Math

Advantages	Explanation
Consistency	Using baker's percentages ensures con- sistent results regardless of batch size.
Scalability	Easy to scale recipes up or down by adjusting the total flour weight.
Comparability	Simplifies comparing different recipes by standardizing ingredient proportions.

Considerations in Baker's Math

Consideration	Description
Flour as Reference Point	All ingredient weights are relative to the flour weight.
Precision	Requires precise measurements for accuracy, especially for small ingredients like yeast and salt.
Understanding Ratios	Understanding the ratio of ingredients to flour is crucial for desired texture and flavor.

Example of adjusting recipe size Original recipe (1000g flour)

Ingredients	Percentage	Weight
Flour	100%	1000g
Water	60%	600g
Salt	2%	20g
Yeast	1%	10g

WHAT WE DO

CLASSES

For home bakers and professionals alike, we share the art and science of artisanal baking. Online and in-person classes are playful, irreverent, informative, and hands-on. >> risebakinglab.com/classes

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Adjusted Recipe (500g Flour)

Ingredients	Percentage	Weight
Flour	100%	500g
Water	60%	300g
Salt	2%	10g
Yeast	1%	5g

Tips for Using Baker's Math

1. Start with Total Flour Weight: Determine the total flour weight first, as it sets the basis for all other calculations.

2. Convert Percentages to Decimals: For calculations, convert percentages to decimals.

3. Use a Digital Scale: For accuracy, especially with small quantities, use a digital scale.

4. Practice with Simple Recipes: Begin with simple recipes to get comfortable with the calculations.

5. Experiment with Ratios: Once comfortable, experiment with adjusting ingredient ratios to see how they affect the final product.

By incorporating these structured approaches and considerations, you can master baker's math, leading to more consistent, scalable, and high-quality baking outcomes.

CONSULTATION

Does your bakery need a kick in the pants? Starting a new bakery? We can assess what's working and what needs help. Increase your customer base, pump out more products, fine-tune your menu, and choose the right tools for the job.

>> risebakinglab.com/consultation



