

## **Recipes:**

*Recipe costing and yields*

A **recipe** is a set of **wr**\_\_\_\_\_ instructions for producing a specific food or beverage

A **standardised recipe** is one that is adjusted for the kitchen (restaurant) for their operation. So for example, the meals on the menu: each Chef will know the amount required for that dish using a standardised recipe. Standardised recipes are customised by the kitchen for their particular use.

- The **type** and **amount** of each ingredient
- The **preparation** and **cooking** procedures
- The **yield** and **portion size** (yield is adjusted for the kitchen's requirements)

**Standardised recipes** are useful for the Chef and management because:

- The written form assists with training cooks
- Educating wait staff
- Controlling **fin**\_\_\_\_\_ matters
  - Standardised recipes help customers receive a consistent **qu**\_\_\_\_\_ and **qu**\_\_\_\_\_ from the restaurant
  - Are essential for recipe **cos**\_\_\_\_\_ and menu **pri**\_\_\_\_\_

### **Weight**

- Refers to the mass or heaviness of a substance
- Expressed in terms such as **gr**\_\_\_\_\_ (g), **kilo**\_\_\_\_\_ (kg), pounds (lbs) and tons

### **Volume**

- Refers to the space occupied by a substance
- Expressed in **milli**\_\_\_\_\_ (ml), centilitres (cl), **li**\_\_\_\_\_ (l), tablespoons (tbsp), teaspoons (tsp)
- Count

Commonly used in **purchasing** to indicate the size of an individual item

### **U.S. system**

- Used only in the United States
- Uses pounds for weight and cups for volume

### **Metric system**

- Most common system in the world
- A decimal system in which grams, liters and meters are the basic units of weight, volume and length, respectively

## Recipe Conversions

Recipe conversions used when scaling a recipe **up** or **down**. Every recipe is designed to produce a certain amount of something. This is its **Yield**

- The total amount of a product made from a specific recipe; also, the amount of a food item remaining after cleaning and processing
- **Conversion factor (C.F.)** The number used to increase or decrease ingredients and recipe yields

### Converting Total Yield

- **Step 1**  
Divide the desired (new) yield by the recipe (old) yield to obtain the conversion factor (C.F.)

$$\text{New Yield} \div \text{Old Yield} = \text{Conversion Factor}$$

- **Step 2**  
Multiply each of the ingredient quantities by the conversion factor to obtain the new quantity

$$\text{Old Quantity} \times \text{Conversion Factor} = \text{New Quantity}$$

For example:

- You find a recipe for what you want. However, the recipe makes too much or too little. Therefore we convert the **total yield** for what **we want**. So for example, we want to make **2 litres** of Cauliflower Soup and the recipe you have makes **4 litres**. So we only need to make **half**.

**Step one:** Determine the **conversion factor (C.F.)**:

- $2 \text{ litres} \div 4 \text{ litres} = 0.5$
- **(New Yield  $\div$  Old Yield = Conversion Factor)**

*It can then be used for any unit millilitres, grams, kilograms etc.*

**Step two:** Apply the conversion factor to **each ingredient** in the soup recipe:

Ingredient:	Old quantity	x	C.F.	=	New quantity
Cauliflower, chopped	2.5kg	x	0.5	=	1.25 kg
Celery stalks	4	x	0.5	=	2
Onions	1	x	0.5	=	(0.5) Half an onion
Chicken Stock	2 litres	x	0.5	=	1 litre
Heavy Cream	1.5 litres	x	0.5	=	750ml (or 0.75 litres)

Now you try to do the conversion:

We would now like to make **MORE** (double) than the original quantity.

- We would like to make **8 litres** of the Cauliflower soup.

Ingredient:	Old quantity	x	C.F.	=	New quantity
Cauliflower, chopped	2.5kg	x		=	
Celery stalks	4	x		=	
Onions	1	x		=	
Chicken Stock	2 litres	x		=	
Heavy Cream	1.5 litres	x		=	

*Additional Conversion Problems:*

Equipment:

Evaporation:

Recipe errors:

Time:

### Calculating Unit Costs and Recipe Costs:

Food service (kitchen) operations purchase (buy) more foods from suppliers in bulk or wholesale packages.

#### Calculating Unit Cost:

Unit cost = the price paid for one of the specified units such as pound, can, gallon, bunch or carton for example.

**As Purchased** (A.P.) = the condition or cost of an item as it is purchased or received from the supplier

Convert the as-purchased (A.P.) costs to unit costs or prices:

**A.P. \$ cost ÷ Number of units = Cost per unit**

A case of Tomato paste cans contains six individual cans. If the case of tomato paste costs \$23.50, then each can costs \$3.92

- In the example 3.3 we see  $\$23.50 \text{ A.P. case cost} \div 6 \text{ cans per case} = \$3.92 \text{ cost per can}$

Another example, we buy a 10-carton case of milk for **100rmb**. How much does **each carton** cost?

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If your recipe needs only a part of the Tomato paste can (1 cup), then you calculate how much the part costs.

- **\$3.92** cost per can ÷ **13** cups per can = **\$.30** cost per cup (approx)

1. Say we have a **500ml** carton of milk. **Our recipe needs 50ml of milk**

The milk carton costs **10rmb**. What is the cost for our **recipe**?

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2. What if our recipe requires **100ml of milk**: What is the cost for our **recipe**?

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3. What if the cost of the milk carton rises to **12rmb**: What is the cost for our **recipe**?

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### Recipe costs:

As a standardised recipe lists all the ingredients and their quantities, it is possible to establish the total cost of the recipe. We then have the **total recipe cost**. We can then break that down to the **number of portions** it yields, and then to the **cost per portion**. This can be used for pricing the food in the restaurant.

#### Step 1

- Determine the cost for the given quantity of each recipe ingredient with the unit costing procedures described earlier

#### Step 2

- Add all the ingredient costs together to obtain the total recipe cost

**Total recipe cost ÷ Number of portions = \$ Cost per portion**

**Recipe Costing Form (simplified):**

Menu item: Cauliflower Soup			Date: 9.20.2011
Total Yield: <b>4 litres</b>			
Ingredient	Quantity	A.P. (\$)	Recipe cost
Cauliflower, chopped	2.5kg	\$1 per kg	\$2.50
Celery stalks	4	\$0.25 each	\$1.00
Onions	1	\$0.50 each	\$0.50
Chicken Stock	2 litres	\$.50 per litre	\$1
Heavy Cream	1.5 litres	\$1 per litre	\$1.50
		<b>Total recipe cost:</b>	\$6.50
		Number of Portions:	10
		Cost per Portion:	\$0.65 or 65c

Below and on the next page, please complete the **Recipe Costing Form** for the different yields of **2 litres** and **8 litres** of Cauliflower Soup.

- You will first have to do the **conversion** for the *quantity required* and then calculate the cost

Menu item: Cauliflower Soup			Date: 9.20.2011
Total Yield: <b>2 litres</b>			
Ingredient	Quantity	A.P. (\$)	Recipe cost
Cauliflower, chopped		\$1 per kg	
Celery stalks		\$0.25 each	
Onions		\$0.50 each	
Chicken Stock		\$.50 per litre	
Heavy Cream		\$1 per litre	
		<b>Total recipe cost:</b>	
		Number of Portions:	5
		Cost per Portion:	

Menu item: Cauliflower Soup			Date: 9.20.2011
Total Yield: <b>8 litres</b>			
Ingredient	Quantity	A.P. (\$)	Recipe cost
Cauliflower, chopped		\$1 per kg	
Celery stalks		\$0.25 each	
Onions		\$0.50 each	
Chicken Stock		\$.50 per litre	
Heavy Cream		\$1 per litre	
		<b>Total recipe cost:</b>	
		Number of Portions:	20
		Cost per Portion:	

1. Your supplier decides to **increase** the price on some ingredients and **reduce** the price on others. Please work out the new total recipe cost.

Menu item: Cauliflower Soup			Date: 9.27.2011
Total Yield: <b>4 litres (new price)</b>			
Ingredient	Quantity	A.P. (\$)	Recipe cost
Cauliflower, chopped		\$1.20 per kg	
Celery stalks		\$0.15 each	
Onions		\$0.40 each	
Chicken Stock		\$.60 per litre	
Heavy Cream		\$1.50 per litre	
		<b>Total recipe cost:</b>	
		Number of Portions:	10
		Cost per Portion:	

2. Due to this increase in costs, you **reduce** the portion size to get **more** portions from the same recipe.

Menu item: Cauliflower Soup			Date: 9.27.2011
Total Yield: <b>4 litres (new price)</b>			
Ingredient	Quantity	A.P. (\$)	Recipe cost
Cauliflower, chopped		\$1.20 per kg	
Celery stalks		\$0.15 each	
Onions		\$0.40 each	
Chicken Stock		\$.60 per litre	
Heavy Cream		\$1.50 per litre	
		<b>Total recipe cost:</b>	
		Number of Portions:	13
		Cost per Portion:	

What other options do we have for dealing with **price rises**? What would you suggest?

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Summary of worksheet	Summary of worksheet in Chinese

In your opinion, what is the most important thing to remember?

What are the keywords from this worksheet?

English:	Chinese translation: