

Title: Chocolate Chip Cookies - Customer Req's vs Functional Req's

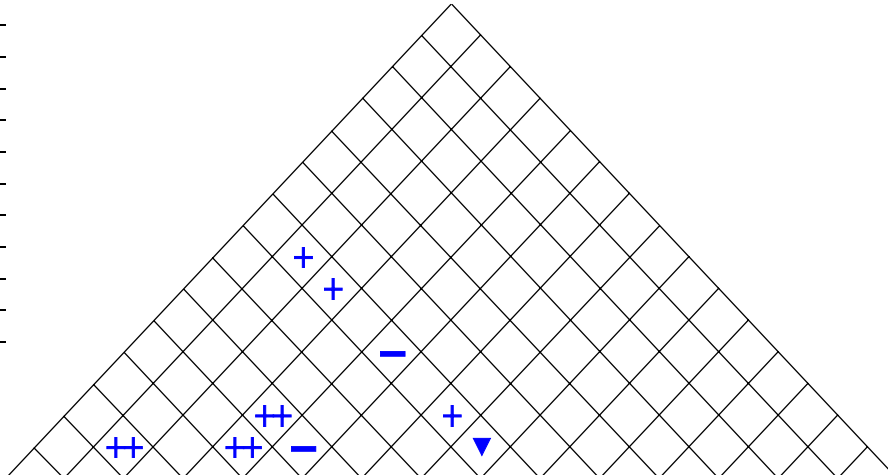
Author: John Doe

Date: 5/15/2008

Notes: The quality characteristic "Weight" in column #4 may not be a valuable requirement. Its "Max Relationship Value in Column" is only a 1.

Legend

- ⊕ Strong Relationship 9
- Moderate Relationship 3
- ▲ Weak Relationship 1
- ⊕⊕ Strong Positive Correlation
- ⊕ Positive Correlation
- Negative Correlation
- ▼ Strong Negative Correlation
- ▼ Objective Is To Minimize
- ▲ Objective Is To Maximize
- X Objective Is To Hit Target



Row #	Max Relationship Value In Row	Relative Weight	Weight / Importance	Demedanded Quality (a.k.a. "Customer Requirements" or "Whats")	Column #															Competitive Analysis (0=Worst, 5=Best)									
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Our Company	Mrs. Fields	Girl Scouts	Starbuck's	Cinnabon	Kebler				
					Direction of Improvement: Minimize (▼), Maximize (▲), or Target (X)																								
					Quality Characteristics (a.k.a. "Functional Requirements" or "Hows")																								
					Color	Tensile Yield Strength	Tensile Ultimate Strength	Weight	Size (diameter)	Thickness	Avg. Hedonic Scale Rating	Cost per Cookie	Density of Chocolate Chips				Our Company	Mrs. Fields	Girl Scouts	Starbuck's	Cinnabon	Kebler							
1	9	6.7	5.0	Good Texture	X	⊕	⊕															2	5	2	3	5	0		
2	9	13.3	10.0	Generous Portions				▲	⊕	○												5	4	3	4	4	1		
3	9	33.3	25.0	Tastes Good							⊕											3	5	4	3	4	2		
4	9	26.7	20.0	Low Price								⊕										5	1	1	0	2	5		
5	9	20.0	15.0	Appetizing Appearance	⊕								○									2	5	2	4	3	2		
6																													
7																													
8																													
9																													
10																													
Target or Limit Value					#FFC125 (Hexadecimal RGB)	.01 MPa	.02 MPa	2 oz.	5"	0.3"	7 (100+ Sample Size)	\$1	5 psi																
Difficulty (0=Easy to Accomplish, 10=Extremely Difficult)					5	7	5	2	3	5	8	6	3																
Max Relationship Value in Column					9	9	9	1	9	3	9	9	3																
Weight / Importance					180.0	60.0	60.0	13.3	120.0	40.0	300.0	240.0	60.0																
Relative Weight					16.8	5.6	5.6	1.2	11.2	3.7	28.0	22.4	5.6																

Title: Chocolate Chip Cookies - Functional Req's vs. Production Attributes

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Notes: "Weight" (Row #4) is not being addressed. Similarly, "Tensile Ultimate Strength" (Row #3) and "Size (diameter)" (Row #5) are not being substantially addressed. (Note their "Max Relationship Value in Row" values.)

Legend		
	Strong Relationship	9
	Moderate Relationship	3
	Weak Relationship	1
	Strong Positive Correlation	
	Positive Correlation	
	Negative Correlation	
	Strong Negative Correlation	
	Objective Is To Minimize	
	Objective Is To Maximize	
	Objective Is To Hit Target	

Row #	Max Relationship Value in Row	Relative Weight	Weight / Importance	Demanded Quality (a.k.a. "Whats")	Column #														
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
					Direction of Improvement: Minimize (▼), Maximize (▲), or Target (X)														
					Quality Characteristics (a.k.a. "Hows")														
					Baking Time	Baking Temp	Order of Ingredients	Length of Wet Ingredient Mixing Time	Length of Dry Ingredient Mixing Time	Age of Cookie (Length of Time Since Baked)	Age of Ingredients	Quality of Ingredients	Cost of Ingredients	Exposure to Air	Cost of Packaging	Use of "Softening" Shortening	Use of "Crisping" Shortening	Use of Flavorful Ingredients	Ratio of Chocolate Chips to Flour
1	9	16.8	180.0	Color															
2	3	5.6	60.0	Tensile Yield Strength															
3	1	5.6	60.0	Tensile Ultimate Strength															
4		1.2	13.3	Weight															
5	1	11.2	120.0	Size (diameter)															
6	9	3.7	40.0	Thickness															
7	9	28.0	300.0	Avg. Hedonic Scale Rating															
8	9	22.4	240.0	Cost per Cookie															
9	9	5.6	60.0	Density of Chocolate Chips															
10																			
11																			
12																			
13																			
14																			
15																			
Target or Limit Value					12.5 minutes	350 F - constant	Wet ingredients followed by dry ingredients	2 minutes	30 seconds	1 day	Manufacturer Recommended Shelf Life	Gourmet Quality	\$0.60 per cookie	4 hrs	\$.02 per cookie			Top 3 Rated in Gourmet Cooking Guide	1 to 1
Difficulty (0=Easy to Accomplish, 10=Extremely Difficult)					3	6	2	4	3	6	4	3	6	6	2	0	0	2	2
Max Relationship Value in Column					9	9	9	1	1	3	3	9	9	3	3	3	3	9	9
Weight / Importance					279.5	279.5	251.6	28.0	28.0	83.9	83.9	251.6	201.2	22.4	67.1	111.8	33.5	251.6	61.5
Relative Weight					13.7	13.7	12.4	1.4	1.4	4.1	4.1	12.4	9.9	1.1	3.3	5.5	1.6	12.4	3.0

Title: Chocolate Chip Cookies - Production Attributes vs. Parts/Materials
 Author: John Doe
 Date: 5/15/2008
 Notes:

Legend		
	Strong Relationship	9
	Moderate Relationship	3
	Weak Relationship	1
	Strong Positive Correlation	
	Positive Correlation	
	Negative Correlation	
	Strong Negative Correlation	
	Objective Is To Minimize	
	Objective Is To Maximize	
	Objective Is To Hit Target	

Row #	Max Relationship Value in Row	Relative Weight	Weight / Importance	Demedanded Quality (a.k.a. "Whats")	Column #																
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
					Direction of Improvement: Minimize (▼), Maximize (▲), or Target (X)																
					Quality Characteristics (a.k.a. "Hows")																
					Oven Type	Baker Experience / Education	Flour Type	Vanilla Type	Shortening Type (Butter)	Shortening Type (Vegetable Shortening)	Shortening Type (Margarine)	Eggs Grade	Container Brand	Chocolate Chip Brand	Ingredients Shelving						
1	9	13.7	279.5	Baking Time																	
2	9	13.7	279.5	Baking Temp																	
3	9	12.4	251.6	Order of Ingredients																	
4	9	1.4	28.0	Length of Wet Ingredient Mixing Time																	
5	9	1.4	28.0	Length of Dry Ingredient Mixing Time																	
6	4.1	83.9	Age of Cookie (Length of Time Since Baked)																		
7	9	4.1	83.9	Age of Ingredients																	
8	9	12.4	251.6	Quality of Ingredients																	
9	3	9.9	201.2	Cost of Ingredients																	
10	1	1.1	22.4	Exposure to Air																	
11	3.3	67.1	Cost of Packaging																		
12	9	5.5	111.8	Use of "Softening" Shortening																	
13	9	1.6	33.5	Use of "Crispening" Shortening																	
14	9	12.4	251.6	Use of Flavorful Ingredients																	
15	9	3.0	61.5	Ratio of Chocolate Chips to Flour																	
Target or Limit Value					Convection	10 yrs.	Cake Flour	"Real" (as opposed to imitation)	Butter	Vegetable Shortening	Margarine	A	Tupperware	Ghirardelli	Food Storage Shelving						
Difficulty (0=Easy to Accomplish, 10=Extremely Difficult)																					
Max Relationship Value in Column					9	9	9	9	9	3	9	3	1	9	9						
Weight / Importance					164.8	300.3	111.3	111.3	237.4	65.9	91.5	37.1	1.1	222.5	37.1						
Relative Weight					11.9	21.8	8.1	8.1	17.2	4.8	6.6	2.7	0.1	16.1	2.7						



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