



Promised Delivery & Safety Margin

Activity Time Mixingredients 6 minutes



- · demand for cookies on campus
- · cost of materials · number of workers





Changes in Production Plan?

Bottleneck: oven

22 orders x $\frac{59.30}{1 \text{ dams.}} = \frac{$204.60 \text{ profit}}{\text{day}} \times 180 \text{ school days} = $36,828$

The Case Solutions.com

Profit = \$36,828/school year Invest in an oven!





Change in Production System?

- · standard cookie = NO customization
- · result will lead to a change in the production system
- · create surplus! · not as fresh



















Working without your Roommate

- · one dozen = 12 minutes
- · more cookies = longer





Kristen's Cookie Company

Mission: To provide fresh, hot out of the oven cookies

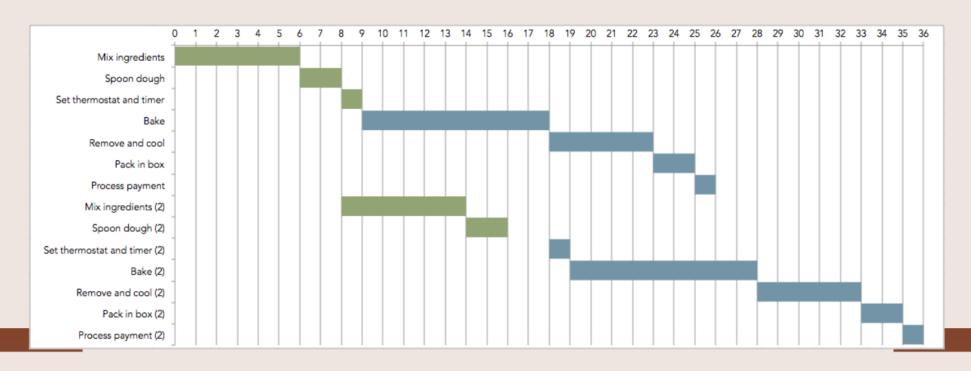
There will be a plethora of ingredients the customers can choose to add to their cookies. All of this would be available right on campus!

How long does it take to fill a rush order?

Process	Time	
Mix ingredients	6 minutes	
Spoon dough	2 minutes	
Set thermostat and timer	1 minute	
Bake	9 minutes	
Remove and cool	5 minutes	
Pack in box	2 minutes	
Process payment	1 minute	
TOTAL	26 minutes	

How many orders can you fill 4 hours a night?

Considering the fact that it takes 26 minutes to complete the first order and 10 minutes after that to complete the next order, we can fulfill 22 dozen orders in one night (4 hours).



Discounts? How much?

# of cookies	Minutes	Labor Cost @ \$10	Material Cost	Total	Proposed Price
1 dozen	12	2	0.7	\$2.70	\$12
2 dozen	17	2.83	1.4	\$2.12	\$20
3 dozen	22	3.66	2.1	\$1.92	\$28

Material Cost =
$$\$0.70$$
/dozen
Labor Cost = 12 minutes $(\frac{\$10}{1 \text{ hr}} \times \frac{1 \text{ hr}}{60 \text{ min.}}) = \2.00

- decreasing cost/dozen
- · 4th dozen would increase labor and material costs due to increased time

Changes in Production Plan?

Bottleneck: oven

22 orders x
$$\frac{\$9.30}{1 \ dozen} = \frac{\$204.60 \ profit}{day}$$
 x 180 school days = \$36,828

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Profit = \$36,828/school year Invest in an oven!



Working without your Roommate

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