

Consumer Mathematics Project Option One: Pizza Project

MTH 161: Spring 2018

You may also create your own “consumer math” project to do instead of this project. If you choose to create your own project, be sure to consult your instructor to ensure you will qualify for the full points. There are suggested projects at the end of chapter 11 in the textbook.

Compare the value of pizza options for three sizes of pizzas from four different pizza restaurants ($3 \times 4 =$ a total of 12 different pizzas). Be sure to use a consistent number of toppings and special features, and compare similar pizzas.

1. Get the diameters, number of pieces and prices for pizzas from four or more restaurants. You must include at least two of the following restaurants:
 - a. Papa Johns
 - b. Pizza Hut
 - c. Dominos

At least two of the restaurants must be small businesses (with no more than 3 locations).

2. Find the area of each of the pizzas.
3. Find the cost per square inch for each pizza.
4. Find the cost per piece for each pizza.

Written Paper

Write a two to three full page paper with four or more paragraphs (typed, double spaced, New Time Roman font 12, 1 inch margins). If you have less than 2 pages of written text (not including a heading, etc.), you will not receive full credit for the project.

The paper should be narrative rather than bullet-pointed and must explain how you completed this project as well as cover each of the following:

1. What would you use (cost per piece or cost per square inch) to find the best value? Why?
2. What does “best value” mean? Which pizza is the best value? (Which restaurant and which size).
3. When would you choose the best-valued pizza? When wouldn't you? For example, how is shopping for pizza for a party for 100 junior high students different from shopping for pizza for 10 professional adults?
4. What are some common incorrect ways to choose the best-valued pizza?
5. Why would someone choose a pizza that is not the best value? Give more than one example.
6. Which is more significant: cost per square inch or cost per piece? Why?

Display

Create a display (using a science-project board). The display should demonstrate your findings in a creative way. Display the Area Calculations on left flap, the Unit Price Calculations on the right flap, and your findings in the center panel. (See the links on Blackboard for tips on creating a good display).

**Math 161 Pizza Project
Spring 2018 Grade Rubric**

	Points Possible	Your Score	Comments
Calculations	(30)		
Area is calculated accurately and work is shown.	15		
Cost per square inch is calculated accurately and work is shown.	15		
Paper	(40)		
Directions	10		
Content is mathematically accurate and demonstrates critical thinking	20		
Grammar, etc	10		
Display	(30)		
Directions	10		
Accuracy	10		
Appearance	10		
Final Grade	(100)		

Pizza Project Calculations

Provide your final calculations here.

Turn the work you have shown to document your answers on a separate paper.

Location One Name:

	Diameter	Number of pieces	Price	Area	Price Per Piece	Price Per Square inch
Size One						
Size Two						
Size Three						

Location Two Name:

	Diameter	Number of pieces	Price	Area	Price Per Piece	Price Per Square inch
Size One						
Size Two						
Size Three						

Location Three Name:

	Diameter	Number of pieces	Price	Area	Price Per Piece	Price Per Square inch
Size One						
Size Two						
Size Three						

Location Four Name:

	Diameter	Number of pieces	Price	Area	Price Per Piece	Price Per Square inch
Size One						
Size Two						
Size Three						

Turning in your Project:

What to Turn In

1. **Your Calculations:** Include the calculation sheet (provided), and submit a page that shows all your handwritten work.
2. **Your Paper:** Your written paper must meet the qualifications that are listed. It is suggested that you work with a writing tutor if you need assistance with spelling and grammar.
3. **Your Display:** Your display must meet the qualifications that are listed.

How to Turn Items In

1. **Your Calculations:** You may turn in your written work OR a scan of your written work. Include the calculation sheet (provided) with your work.
2. **Your Paper:** Turn in your written paper in the form of either a PDF or Microsoft Word document.
3. **Your Display:** There are 2 options
 - a. Drop off your display in room 211 or 228 at the Wildwood Campus
 - b. Turn in the following photos of your display
 1. A photo of your entire display
 2. A photo of the *CENTER* panel of your display
 3. A photo of the *LEFT* panel of your display
 4. A photo of the *RIGHT* panel of your display