

**Pizzeria Profits!**

There are two businesses that have opened in Corona. Let's compare them and see which business makes a greater profit.

For the purpose of this project a month always has four weeks.

Frank's Pizzeria	Kelly's Pizzeria
<u>Amount Spent on Supplies:</u> \$759.67 per week	<u>Amount Spent on Supplies:</u> \$840.65 per week
<u>Amount Spent Paying Employees:</u> \$2300.50 per month	<u>Amount Spent Paying Employees:</u> Once supplies are paid for, Kelly's Pizzeria pays employees 7/8 of the amount earned for the month.
<u>Amount Earned Selling Pizza:</u> Week 1: \$1500 Week 2: \$1200 Week 3: \$800 Week 4: \$1420	<u>Amount Earned Selling Pizza:</u> Week 1: \$1740.25 Week 2: \$1490.17 Week 3: \$2807.13 Week 4: \$650.35

Use the information from above to answer the following questions. Show your work in the space below each question.

a) How much money do the employees from Frank's Pizzeria earn per week? How much money do the employees from Kelly's Pizzeria earn by the end of the month?

Frank's Pizzeria	Kelly's Pizzeria

b) By the end of the fourth week there was either a net loss or net gain for each business. Determine the net loss or gain for each business that occurred by the end of the fourth week. Which business had a net loss? Justify your response.

Frank's Pizzeria	Kelly's Pizzeria

c) Use your response from Question B to answer this question. How much more money should the business(es) have made in order to break even? Show your work.

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d) Frank's Pizzeria has a champion pizza eater named Sandy who can eat  $6\frac{1}{2}$  slices in 2 minutes. Kelly's Pizzeria has a champion pizza eater named James who can eat 3 slices in  $1\frac{1}{2}$  minutes. Who can eat more pizza in 1 minute?

Frank's Pizzeria	Kelly's Pizzeria

Use a number line to show the difference between the amounts of pizza eaten by the two competitors in one minute.



e) What fraction of the total sales for four weeks is used to pay for supplies for each business? Write this amount also in decimal and percent form.

Frank's Pizzeria	Kelly's Pizzeria

f) Amanda would like to own Frank's Pizzeria. If Amanda only purchases businesses that earn a profit, would you agree or disagree with her decision? Explain your reasoning and include details of the business' net gain or loss to support your response.

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