

Name \_\_\_\_\_




# How Much Can I Buy?

A thinkLaw Math Lab




## thinkStarter

Solve for each value.




$$\begin{aligned} \text{Pizza} + \text{Pizza} &= 12 \\ \text{Pizza} + \text{Burger} &= 8 \\ \text{Pizza} - \text{Chicken} &= 2 \\ \text{Chicken} \times \text{Burger} + \text{Pizza} + \text{Pizza} &= \_\_\_\_ \end{aligned}$$

|   |                      |   |                      |   |                      |
|---|----------------------|---|----------------------|---|----------------------|
|  | <input type="text"/> |  | <input type="text"/> |  | <input type="text"/> |
|---|----------------------|---|----------------------|---|----------------------|




$$\begin{aligned} \text{Ice Cream} + \text{Ice Cream} &= 8 \\ \text{Ice Cream} + \text{Donut} &= 7 \\ \text{Ice Cream} \times \text{Chocolate} &= 16 \\ \text{Donut} \times \text{Chocolate} + \text{Ice Cream} &= \_\_\_\_ \end{aligned}$$

|   |                      |   |                      |   |                      |
|---|----------------------|---|----------------------|---|----------------------|
|  | <input type="text"/> |  | <input type="text"/> |  | <input type="text"/> |
|---|----------------------|---|----------------------|---|----------------------|




$$\begin{aligned} \text{Popcorn} + \text{Popcorn} + \text{Popcorn} + \text{Popcorn} &= 16 \\ \text{Popcorn} + \text{Taco} &= 12 \\ \text{Taco} + \text{Hot Dog} &= 11 \\ \text{Taco} \div \text{Popcorn} + \text{Hot Dog} - \text{Popcorn} &= \_\_\_\_ \end{aligned}$$

|   |                      |   |                      |   |                      |
|---|----------------------|---|----------------------|---|----------------------|
|  | <input type="text"/> |  | <input type="text"/> |  | <input type="text"/> |
|---|----------------------|---|----------------------|---|----------------------|




$$\begin{aligned} \text{Bread} + \text{Bread} + \text{Bread} &= 18 \\ \text{Bread} + \text{Cheese} + \text{Cheese} &= 12 \\ \text{Plate} \times \text{Plate} &= 49 \\ \text{Plate} \times \text{Cheese} + \text{Bread} - \text{Cheese} &= \_\_\_\_ \end{aligned}$$

|   |                      |   |                      |   |                      |
|---|----------------------|---|----------------------|---|----------------------|
|  | <input type="text"/> |  | <input type="text"/> |  | <input type="text"/> |
|---|----------------------|---|----------------------|---|----------------------|

$$\begin{aligned} \text{Cake} + \text{Cake} + \text{Cake} &= 45 \\ \text{Lollipop} + \text{Cookie} + \text{Lollipop} &= 24 \\ \text{Cookie} + \text{Cookie} + \text{Cake} &= 35 \\ \text{Cake} + \text{Lollipop} - \text{Cookie} &= \_\_\_\_ \end{aligned}$$

|   |                      |   |                      |   |                      |
|---|----------------------|---|----------------------|---|----------------------|
|  | <input type="text"/> |  | <input type="text"/> |  | <input type="text"/> |
|---|----------------------|---|----------------------|---|----------------------|

$$\begin{aligned} \text{Noodle} \times \text{Noodle} &= 100 \\ \text{Sushi} \times \text{Sushi} &= 64 \\ \text{Rice} \times \text{Rice} &= 1 \\ \text{Noodle} + \text{Sushi} + \text{Rice} &= \_\_\_\_ \end{aligned}$$

|   |                      |   |                      |   |                      |
|---|----------------------|---|----------------------|---|----------------------|
|  | <input type="text"/> |  | <input type="text"/> |  | <input type="text"/> |
|---|----------------------|---|----------------------|---|----------------------|

**thinkStarter Summary**

The math puzzles in our thinkStarter are a fun way to exercise your brain. But the ability to determine how much you're spending and how much each item costs is a real-life skill. In today's thinkLaw lesson you will look at a shopping budget to determine what you can purchase.

**Shopping Trip #1**

You have \$25.00 to shop. What will you buy?



|                    |  |                    |  |
|--------------------|--|--------------------|--|
| <b>Total Money</b> |  | <b>Total Items</b> |  |
|--------------------|--|--------------------|--|

Shopping Trip #2

You have \$25.00 to shop. What will you buy?



|             |  |             |  |
|-------------|--|-------------|--|
| Total Money |  | Total Items |  |
|-------------|--|-------------|--|

What is your gut reaction to the two shopping trips? Why?

**Inflation** is when the price of goods and services goes up over time. You may have heard the adults in your family complain about how expensive certain items have gotten.

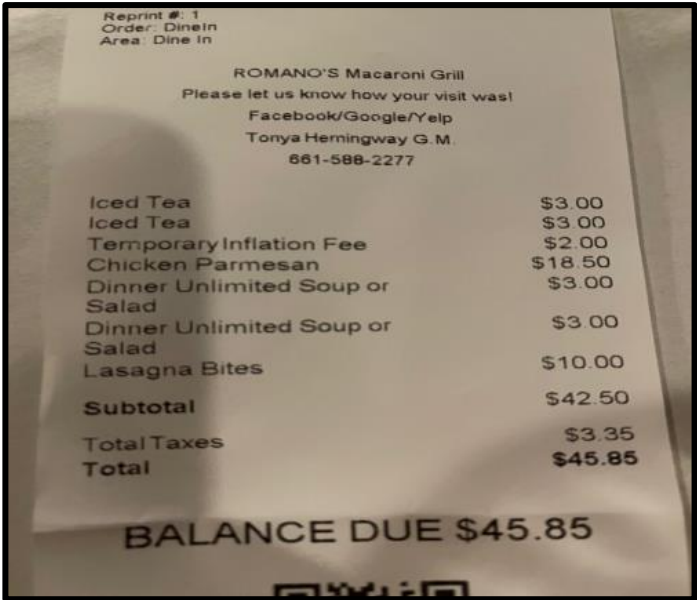
For example:

|  |  |
|--|--|
| The average cost of bread in 2003.         | The average cost of bread in 2023.         |
| \$1.58                                     | \$2.38                                     |
| The average cost of a Hershey bar in 2003. | The average cost of a Hershey bar in 2023. |
| \$0.80                                     | \$1.32                                     |

Why do you think prices increase over time?

**Inflated Prices** (Cashaw, Buechler, OhumKini, at el. v. Romano's Macaroni Grill, Hawai'i, 2022)

Romano's Macaroni Grill is a chain restaurant that sells Italian food. Nakeycia Cashaw went to eat a Macaroni Grill. She ordered food from the menu and ate her dinner. When she was finished, she looked at the bill. Nakeycia noticed that her bill included a \$2.00 “temporary inflation fee.”




Nakeycia was confused. She ordered from the menu and could see the price of each item listed on the menu. But nowhere on the menu did it say that she would be charged an extra \$2.00 fee. Nakeycia felt it was unfair. No one told her about the fee until after she had eaten her food. Nakeycia said that she would not have eaten at the restaurant if she had known about the fee.

Macaroni Grill said that the price of food had increased. The restaurant decided to add the fee to avoid raising all their prices.

Nakeycia and other people joined together to sue Macaroni Grill. They said the fee was unfair and was a way to trick customers into paying more money.

Take the position of the judge in this case. Who should win? Should Macaroni Grill be allowed to add the \$2.00 inflation fee?

**Use the DRAAW+C Framework to write your decision.**

|   |   |  |
|---|---|--|
| <b>D</b>  | Who should win? Nakeycia or Macaroni Grill?   |  |
| <b>R</b>  | What is the rule?   |  |
| <b>A</b>  | What is the best argument for the plaintiff? (Nakeycia)   |  |
| <b>A</b>  | What is the best argument for the defendant? (Macaroni Grill)   |  |
| <b>W</b><br> | Why is your decision the best decision for the world? How will this decision impact how other restaurants charge customers? |  |
| <b>+C</b>   | Conclusion  |  |

## thinkBigger

Imagine you owned a restaurant. The cost of your food ingredients increased because of inflation. You need to make a tough decision. What should you do? What is the best argument for each option?



**Option 1:** You can raise your prices and your customers would pay a little more for their food.

What is the best argument for this option?

What is the best argument against this option?

**Option 2:** You can save money by firing 2 employees.

What is the best argument for this option?

What is the best argument against this option?

What other ideas do you have that could help?

