

## MATH: Unit Price

When you are shopping, the unit price is a helpful value to consider. It tells you how much you'll pay for one unit of something. That unit could be a measurement, like pounds or ounces, or an item, like an apple or pencil.

You can calculate the price for a single unit by dividing the total price by the number of units. Usually, you can also find it listed on the grocery store price tag! In this activity, you will practice calculating unit prices so that you can get the best deal when shopping!



### Math Topics

- Division

### Personal Finance Topics

- Unit Price

Example: You are shopping for ice cream and see that the total price is \$5.49 for a 56-ounce container. What is the unit price of this item?

$$\begin{aligned} \text{Unit price} &= \frac{\text{total price}}{\# \text{ of units}} \\ &= \frac{5.49}{56} \\ &= 0.098 \end{aligned}$$



### Solution:

The unit price of the ice cream is 9.8 cents per ounce.

# MATH: Unit Price

Complete the following practice problems and show your work in the space provided. Then, write your final solution in the answer boxes.

Question 1	Answer
You are school supply shopping and see that there is a packet of 6 pencils for \$2.70. How much does each pencil cost?	\$0.45

Question 2	Answer
At Grocery Mart, tomatoes are \$2.75 per pound, or you can buy a 5-pound box for \$11. a) What is the unit price for the first tomato option? b) What is the unit price for the second tomato option? c) Based on price, which is the better value option?	A: 2.75 B: 2.2 C: The 5-pound is better

Question 3	Answer
You typically buy all of your groceries at Grocery Mart. This week, your favorite cereal is on sale there, 4 boxes for \$10. At Food Market, where you don't typically shop, the same cereal is on sale for \$2.25 a box. a) What's the unit price at Grocery Mart? b) What is the unit price at Food Market? c) Based on price, which is the better value option?	A: 2.5 B: 2.25 C: food market sale is better

Question 4	Answer
At the market, you can buy 6 bags of apples for \$25. At the orchard, you can get 8 bags of apples for \$35. Which is the better deal?	the market has the better deal

Question 5	Answer
The store close to your school has 8 bottles of juice for \$19.99. The store close to your house has 6 bottles of juice for \$15.75. Which store has a higher unit price?	The store close to the school has a better price

### Part III: Reflection

6. Write a mathematical expression for solving for unit price.

$$\$/\text{Units} = \text{UP}$$

7. Refer back to Question 2.
- If you were grocery shopping, would you buy tomatoes by the pound or by the box? Explain your reasoning.
  - Would you change your answer if you were shopping for rice instead of tomatoes? Why or why not?

I would buy tomatoes by the pound because I do not eat them very fast and they would go bad. Although, since rice can be stored for longer, I would buy it by the box instead of by the pound.

8. Refer back to Question 3.
- a. Where would you buy the cereal, and how many boxes would you purchase?
  - b. Would your answer change if you knew your grocery budget for this week was \$55?

I would buy the cereal at the food market because the price is better. I would probably get one or two.