

# Unit Price

## Exploring Unit Price

- In this tutorial, I'll explore *Unit Price*.
- I'll use my previous understanding of *rates*, *equivalent rates* and *unit rates* to calculate *unit price*.
- I'll practice using a mental math approach to determine the '*better buy*'.

6 doughnuts cost \$4.50

- What would calculating the *unit price* of these doughnuts tell me?

A classmate used the solution below to calculate the *unit price*.

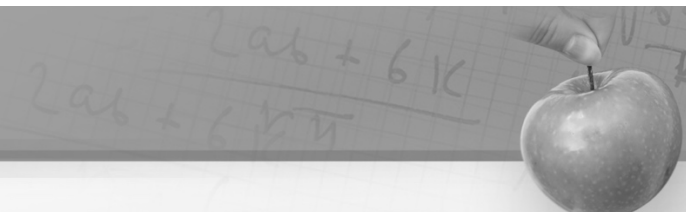
$$\$4.50 \div 6 = 0.75$$

- How would I explain this solution?

A proportion equation can also be used to calculate *unit price*.

- How would I explain writing a proportion for calculating the *unit price* of the doughnuts?





- Before I begin my calculations, what should I check regarding the *units of measure* in each *rate*?

$$\frac{4.50}{6} = \frac{p}{1}$$

- How could I use my understanding of *equivalent fractions* to solve for the *unit price* of a doughnut?

$$\frac{4.50}{6} = \frac{p}{1}$$

- How could I solve for the *unit price* of a doughnut using *algebra*?



I've seen 3 solutions for calculating the *unit price* of a doughnut.

$\$4.50 \div 6 = 0.75$	$\frac{4.50}{6} = \frac{0.75}{1}$	$\begin{aligned} \frac{4.50}{6} &= \frac{p}{1} \\ \frac{6p}{6} &= \frac{4.50}{6} \\ p &= 0.75 \end{aligned}$
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- How are these solutions the same?

6 doughnuts cost \$4.50  
A dozen doughnuts cost \$6.00

- How would *unit price* help me determine the *better buy*?
- How would I explain and demonstrate using *unit price* to determine the *better buy*?
- Can I determine the *better buy* without actually knowing the *unit price*?
- How would I explain my reasoning?



# Unit Price

Which statements do I feel confident explaining and demonstrating?

Which statements do I not feel confident explaining and demonstrating?

- ✓ I can explain unit price
- ✓ I can write a unit price as a rate
- ✓ I can explain and demonstrate how I divide the values in a rate to calculate unit price
- ✓ I can explain and demonstrate writing a proportion equation to calculate a unit price
- ✓ I can compare solving a proportion equation to calculating equivalent fractions
- ✓ I can explain and demonstrate how I solve a proportion equation using algebra

