

# Finding the Part: The Final Amount

## Objectives:

- To find the part or final amount, using the percent box, when the original amount and the percent are known

## Outcomes:

- To complete the "Finding the Final Amount" worksheet with at least a 90% score

## Warm-Up:

The percent box takes the mystery out of where to put the numbers when working with percent problems. When finding the final amount, the square that is marked % always has a base of 100%. For sales tax and mark ups, have the student add the percent to 100% and place that number in the percent square. For discounts, subtract the percent from 100% and place it in the percent square.

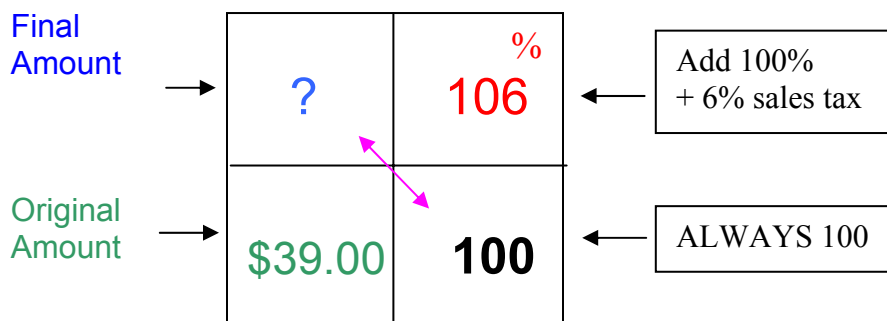
## New Instruction:

The boxes are color coordinated for easy placement of numbers.

### FINDING THE FINAL AMOUNT

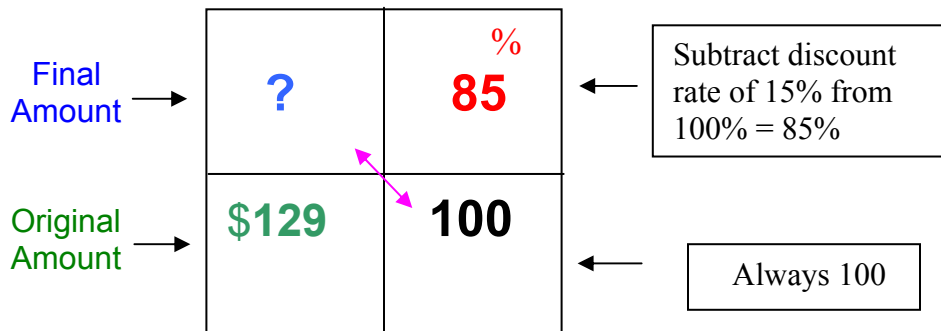
Original amount: **\$39.00**

Sales Tax rate: **6%**



1. **Fill in** original amount. (**39.00**)
2. **Add 100%** + increase rate amount **6%**; then **fill in** percent square with the result. (**106**)
3. **Cross-multiply** two filled-in squares. (**106 x \$39.00**)
4. **Divide** the answer (**4134**) by the extra number (**100**) to get **final amount**.
5. **Final amount = \$41.34**

Original Amount: **\$129.00**  
Discount Rate: **15%**



1. **Fill in** original amount. (**129**)
2. **Subtract** discount rate from 100% (100% - 15%); then **fill in** percent square with the result (**85**).
3. **Cross-multiply** two filled-in squares. (**129 x 85**)
4. **Divide** answer (**10965**) by the extra number (**100**) to get final amount.
5. **Final amount = \$109.65**

## Feedback and Review:

Practice what you have learned by doing the following problems:

1. **Find the final amount:**  
Original amount: **\$40.00**  
Sales tax rate: 5% (100% + 5% = **105%**)

2. Find the final amount:  
Original amount: \$10,000  
Discount rate: 7% ( $100\% - 7\% = 93\%$ )
3. Find the final amount:  
Original amount \$130.00  
Discount rate: 15%
4. The population for a small town was 1600. The town grew 10% over the previous year. What is the current population?
5. The average number of points scored by the team's best player decreased by 15% after his injury. If he had been averaging 40 points per game, what is his new average?
6. Katie's baby weighed 25 pounds at her last doctor's visit. If the baby's weight increases by 12%, how much will she weigh when she gets her next checkup?
7. Last month your gas bill was \$150; this month the power company projects a decrease of 9.5%. How much will your bill be this month?
8. Your long distance bill is expected to rise by 25% when your son goes to college. It is now \$10.00 per month. How much will it be while he is away?

**Answers:**

1. 42
2. 9300
3. 110.50
4. 1760 people
5. 34 points
6. 28 pounds
7. \$135.75
8. \$12.50

## Transfer of Knowledge or Skills:

For further practice, go to <http://www.funbrain.com/cgi-bin/pw.cgi> .