



Tech Tip: Adding Percent to a Number

Often, you will need to add a percent to a number.

- This is done to calculate the tax on a purchase.
- This can also be done to determine the amount of rent increase for your apartment.

Percent means “for each 100.”

Example

Johanna wants to buy a CD for \$17.99. What is the total cost of the CD, including 13% tax?

Solution

Method 1

Use the $\%$ key.

$$\text{C } 17.99 + 13 \% = 20.3287$$

Round your answer to the nearest cent

The total cost of Johanna’s CD is \$20.33.

Note: The method above will work with many calculators. If you have a scientific calculator, experiment to find out how the $\%$ key works.

Method 2

Multiply the cost by 1 plus the percent shown as a decimal.

$$\text{C } 17.99 \times 1.13 = 20.3287$$

Round your answer to the nearest cent

The total cost of Johanna’s CD is \$20.33.

- 1.** The monthly rent for Theeben's apartment is \$625. His landlord tells him that next year, the monthly rent will increase by 6%.
 - a)** Calculate Theeben's new monthly rent using Method 1.

 - b)** Calculate Theeben's new monthly rent using Method 2.

 - c)** Which method do you prefer to use? Why?

- 2.** Hakim works 40 hours per week and currently earns \$10.25 per hour at his job. His supervisor tells him that next month, he will receive a 7% pay increase.
 - a)** Calculate Hakim's new hourly pay.

 - b)** How much will Hakim earn per month after the increase? Assume a 4-pay month.

- 3.** Niko's monthly car insurance premium is \$165, and will increase by 10% next year. How much will he pay per month next year?

- 4.** Natasha works as a server in a restaurant. Last week she earned \$460 in wages. Natasha enjoys working with people and often gets large tips. Last week, she received an amount equal to 80% of her wages in tips. How much did she bring in last week?