**Remember:** When dealing with prices (\$) you need to round to the nearest hundredth (0.00)

## Markdowns and markups

#### MARKDOWNS

Discount-a reduction in price

To find the amount of a discount: Change the discount % to a decimal and multiply that by the original cost

To find the sale price: Subtract the amount of discount from the original cost

Discount = regular price x rate of discount Sale price = regular price discount



A store that sells video games had a 15% discount on all used games. Alex bought a used game which cost \$29.99.

What was the price of the game after the discount?

Step 1: Find the percent of the number using proportions

х	_	15
29.99	_	100

Step 2: subtract the percent to your original total

29.99-4.50

5

## EXAMPLE ANSIER

#### The 15% discount of \$29.99 is \$4.50 (after being rounded). You subtract \$4.50 from \$29.99 to get the sale price of:



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### MARKUPS

A markup is the percent of increase

× The overall number will go up instead of down

#### Amount of markup = cost x (times) markup rate Selling price = cost + amount of markup

### FORMS OF MARKUP

These are times will you'll find the percent of the overall value then ADD the percent to it.

- $\times$  Sales Tax-percent of the purchase price
- × Tips-percent of a bill from a service provided
- X Commission—the amount a salesperson earns on a sale

They all follow the same markup formula.

# EMAPLE

Paul buys a handful of items for \$43.39. The sales tax for all of this is 7% How much did Paul have to spend AFTER adding the sales tax?

Step 1: Find the percent of the number using proportions

Х 43.39 100

Step 2: add the percent to your or iginal total \$43.39 + 3.08 = \$46.47

11

## EXAMPLE ANSTER



The 7% tip from \$43.39 is \$3.08. You add that total to the original price (3.08 + 43.39) to get the total cost including tax, which would be



### SHORTCUT FOR MARKUPS

Multiply your overall value by the percent (turned decimal) plus 1

Example: 7%tax on \$15.

15.00 x1.07= \$16.05 (total cost including tax)