## Key

## Discount, Sale Price, and Tax

Do you like to shop? Do you like sales? Do you pay attention to the cashier as she/he checks your purchase? Do you review your receipt? Whether or not you like to shop... There are a few things everyone needs to learn about shopping. First, we will explain what a few common shopping terms mean.

- The <u>original</u> <u>price</u> is the amount you would pay before a sale.
- The <u>discourt</u> is the amount you do not have to pay. Note: Sometimes this is written as a percent and sometimes you are given an actual dollar amount that you will not have to pay.

Which is better 10% off or 10 off??

Answer: It depends ...

- The <u>Sale</u> <u>price</u> is the price you pay after the discount is taken off.

  Sale price = original price discount
- $\checkmark$  Finally, the  $+\alpha \times$  is added onto the sale price to find the new price you have to pay.

new price (or "final price") = sale price + tax

Note: Sometimes the terms "mark up" and "mark down" are used to show how much is added or taken off of the item.

inflation ("

Let's do some examples to help become, like the commercial says..., "a more educated consumer."

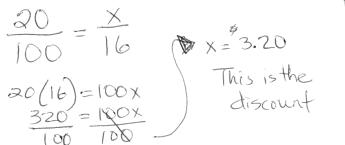
A tie has a regular price of \$16. It is now on sale for 20% off. Find the sale price. #1

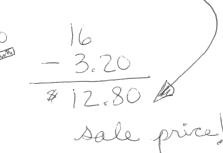


$$\frac{20}{100} = \frac{x}{16}$$

$$20(16) = 100x$$

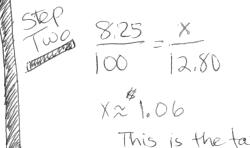
$$\frac{320}{100} = \frac{100x}{100}$$

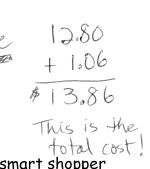




Sales tax in Putnam County is  $8\frac{1}{4}\%$ . What is the sales tax on the tie in question #1? #2







Yesterday Susie bought a new sweater that originally cost \$28. She was a smart shopper #3 and had a discount coupon worth \$10. How much did she have to pay, including a 5% sales tax?

Step
$$\frac{5}{100} = \frac{x}{18}$$
Step
$$\frac{18}{18.90}$$

$$x \approx 90 = \frac{x}{18.90}$$

$$+ 4x$$

Find the price of an item, including a  $7\frac{1}{2}\%$  tax, that originally sold for \$320 and is now #4 marked down 20%.

$$\frac{20}{100} = \frac{x}{320}$$

$$x \approx 64$$
discount



