

Name: _____

Date: _____

Aim: How can we use percents to find discount and sales price?

I. Shoes at Footlocker are on sale for 40% off. If the original price was \$120, how much is the new price of the shoes?

II. If there is 4.5% sales tax, how much are the shoes?

Percents are used every day in real life, but one of the most common ways that we can apply our knowledge of percents is to shopping. Frequently, stores will have items go on **sale**, or customers will receive coupons in the mail for **discounts** on a certain item. We are going to study how to find those discounts, as well as the new sales price for an item.

Vocabulary

Let's say MACY*S is having a sale on a pair of shoes that were \$100. They are on sale for 25% off. This means, that they are taking 25% off of the bill. Since 25% of 100 (or 0.25×100) is \$25, the discount is \$25.00. And the pair of shoes is now \$75.

Original Price: _____

Discount: _____

Formula:

Sale Price: _____

In addition to discounts that are frequently applied to popular merchandise, stores are required by the state to charge tax on certain items.

Tax: _____

Formula:

1.) MACY*S is selling a pair of sneakers, priced at \$82.00. Today, there is a 30% off sale, and you are looking to buy this pair of sneakers. Find the sale price of the pair of sneakers.

a.) First, find the discount.

b.) Second, find the sales price.

Guided Problems

2.) The price of a used car is \$15,800. If the sales tax is 8%, what is the final price of the car?

a.) First, find the tax.

b.) Second, find the final price.

3.) You went to the store to buy a sweater for \$50. You found out that it is on sale for 10% off! How much did you pay for the sweater, with tax, if the tax rate is 4.5%?

a.) First, find the discount.

b.) Second, find the sales price

c.) Third, find the tax.

d.) Fourth, find the final price.

Individual Problems

- 1.) Sears is having a 15% off sale on tires. If Michelin tires sell for \$125, what is the discount? What is the new price of the tires?

- 2.) Lord and Taylor is having a 20% off sale on jewelry. If you purchase a bracelet that regularly sells for \$90, what is the sales price?

- 3.) Sports Authority is having a 30% off sale, and the jersey you want sells for \$52.00. What is the price that you will pay after the discount?

- 4.) Bloomingdale's is having a 25% off sale on clothing. If you purchase a sweater that regularly sells for \$67.50, what was the final price?

- 5.) Lunch cost \$20, but you had a coupon for the restaurant for 15% off. What was the cost of your lunch after the discount?

- 6.) Jen bought a shirt for \$50, but she had a coupon for 10% off. What is the new price of the shirt?

- 7.) Challenge problem: The regular price of an item is \$44, and the sale price of the item is \$30. What was the discount rate?