

Discount and Sales Tax (pages 474–477)

You can use one of the two methods that follow to find the total cost of an item including sales tax or the sale price of an item including a discount.

	Sales Tax	Discount
Method 1	<ul style="list-style-type: none"> First, find the amount of the sales tax, t. Then add the sales tax to the price of the item. 	<ul style="list-style-type: none"> First, find the amount of the discount, d. Then subtract the discount from the price of the item.
Method 2	<ul style="list-style-type: none"> First, add the percent of tax to 100%. Then multiply to find the total cost including tax. 	<ul style="list-style-type: none"> First, subtract the percent of discount from 100%. Then multiply to find the sale price including discount.

EXAMPLES

A Find the total cost of a \$72 item with 6% sales tax.

$$6\% \text{ of } \$72 = t, \text{ or } \$4.32$$

$$\$72 + \$4.32 = \$76.32$$

The total cost is \$76.32.

B Find the sale price of a \$250 item with a 30% discount.

$$100\% - 30\% = 70\%$$

So the sale price will be 70% of the original price.

$$\$250 \times 0.7 = \$175$$

The sale price is \$175.

Try These Together

Find the total cost or sale price to the nearest cent.

1. \$6.95 lamp; 15% off

HINT: The sale price will be less than \$6.95.

2. \$19.50 sweatpants; 6% tax

HINT: The total cost will be more than \$19.50.

PRACTICE

Find the total cost or sale price to the nearest cent.

3. \$24.50 sandals; 20% discount

4. \$230 trampoline; 30% off

5. \$25 dartboard; $6\frac{1}{2}\%$ tax

6. \$37.95 computer game; $5\frac{1}{2}\%$ tax



7. **Standardized Test Practice** What is the sale price to the nearest cent of a \$79 rug on sale for 10% off?

A \$86.90

B \$78.21

C \$71.10

D \$69.00

Answers: 1. \$6.91 2. \$20.76 3. \$19.60 4. \$161 5. \$26.63 6. \$40.04 7. C