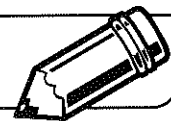


**LESSON**  
**8•9****Calculating Discounts**

There are 2 steps to finding a discounted total:

- ◆ Calculate the amount that represents the percent of discount.
- ◆ Subtract the calculated discount from the original total. This is the discounted total.

Calculate the discounted total for the following problems. Show your work on the back of this sheet.

1. A computer store has an Internet special for their customers. If Carla spends \$50.00 or more, she gets 10% off her order. The shipping and handling charge is 4% of the original total. Carla buys \$68.00 in software. What is her total charge?

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2. The Hartfield School District wants to get the government discount for telephone service. The discount is based on the percent of students qualifying for the National School Lunch Program. 32% of students in this urban district qualify. The district pays about \$3,500 per month for telephone service. Use the table below to find how much the district would save.

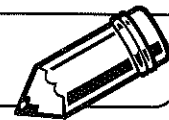
Percent of Students	Urban Discount	Rural Discount
Less than 1%	20%	25%
1% to 19%	40%	50%
20% to 34%	50%	60%
35% to 49%	60%	70%
50% to 74%	80%	80%
75% to 100%	90%	90%

The Hartfield School District is eligible for a \_\_\_\_\_ discount. The district will save about \_\_\_\_\_ per month for its telephone service. With the government discount, the district will pay about \_\_\_\_\_ per month.

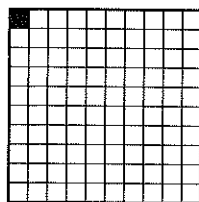
3. At the Goose Island Family Restaurant, if the original bill is \$75.00 or more, the kids' meals are discounted 3%. If the original bill is \$95.70, with \$23.00 for kids' meals, what is the discounted amount? \_\_\_\_\_ What is the discounted total? \_\_\_\_\_

**LESSON**  
**8·9**

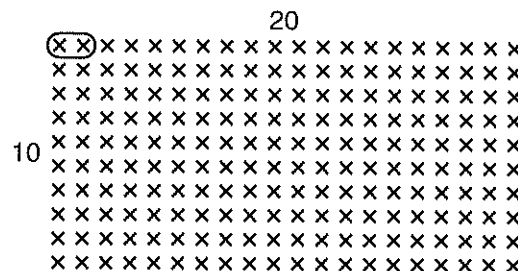
# Finding the Percent of a Number



The unit percent is 1% or 0.01.  
 For example, the unit percent of 100 is 1; the unit percent of 200 is 2; the unit percent of 10 is 0.1.



1% of 100



1% of 200



1% of 10 cm

Another way to think of the unit percent of a number is to think: *What number times 100 equals the whole?* For example,  $1 * 100 = 100$ ;  $2 * 100 = 200$ ;  $0.1 * 100 = 10$

To find the unit percent of a whole, multiply by 0.01 or  $\frac{1}{100}$ .

Solve.

1. 1% of 84 = \_\_\_\_\_    2. 1% of 35 = \_\_\_\_\_    3. 1% of 628 = \_\_\_\_\_

The unit percent can be used to find other percents of a whole. For example, if you want to find 8% of 200:

- ◆ Calculate the unit percent:  $1\% \text{ of } 200 = 200 * 0.01 = 2$
- ◆ Check your answer:  $2 * 100 = 200$ .
- ◆ Multiply your answer by the percent you are finding:  $2 * 8 = 16$ ;  $8\% \text{ of } 200 = 16$

Solve.

4. 19% of 84 = \_\_\_\_\_    5. 72% of 35 = \_\_\_\_\_    6. 37% of 628 = \_\_\_\_\_

7. Think about the steps you followed in Problems 4–6. First you multiplied the unit percent by 0.01, and then you multiplied the product by the number of percents. How can you find the percent of a number by multiplying only once? Provide an example.

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