Name _____   Date _____

Calculating Percent Decreases

Student
Logbook

As you work through the tutorial, complete the following statements and questions.

Key Words:

Percent

Learning Objectives:

- Decreasing a number by multiplying it by 100% less the percent decrease

- Decreasing a number by multiplying it by a percent and subtracting the decrease from the original amount

1. What is the list price for the Floatura? _____

2. What is the percent discount of the Floatura's list price? _____

3. To perform the high/low estimate, Dijit first rounded the list price to the nearest thousand. What is that value? _____

4. To find the discount amount for the high/low estimate, complete the expressions phrases below.

   a. Low estimate discount: _____ % of $ _____ = $ _____

   b. High estimate discount: _____ % of $ _____ = $ _____

5. According to the estimates listed above, the total price will be between what two values? _____ and _____

6. What percent of the list price would Jamel pay for the Floatura? _____

7. Write an equation and use it to calculate the actual price of the car.

8. Was the estimate reasonable? _____ Explain your answer.

   _____

9. Insert the correct values below each label to check your calculation.
   List price   − 15% of list price   = actual price

   _____   − _____   = _____

10. Based on the actual prices of the two cars, which car should Jamel buy? _____

Destination
Math

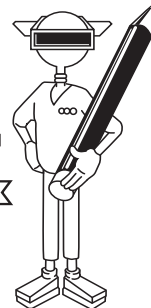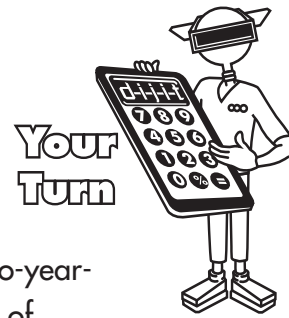COURSE: **MSC IV**
MODULE 3: **Percents**
UNIT 3: **Increasing & Decreasing Percents**

Calculating Percent Decreases

1. A dealer at the Coney Valley Car Emporium says that your two-year-old Racer 2LE is now worth 73% of its original purchase price of $11,000. How much is your car worth now? _____

2. A friend needs insurance for her new car. Without any deductions, she will have to pay $650 every 6 months for her insurance. The chart below shows how much she can save on her insurance for each deduction used.

Item	Deduction
driver training course	12%
dual airbags	10%
automatic seat belt	5.5%

a. If she takes a driver training course, how much will she save every 6 months? _____

b. With all of the deductions listed above, how much will she pay annually for her car insurance? _____

3. Two auto supply companies sell seat covers. Happy Car automobile accessories offers a "Buy 1, Get 1 for 50% off" sale, and Car Zone offers 30% off the price of each cover. The regular price for one seat cover at each store is $67.50.

a. How much would 2 seat covers cost at Happy Car? _____

b. How much would 2 seat covers cost at Car Zone? _____

c. How much money would a person save buying 2 seat covers at the lesser cost? _____

Destination
Math