

# Percent Calculations

## Discussion:

When doing mathematics for business, you will often work with percents. You must be able to calculate percentages from fractions, calculate the percent part of a number, and many others. In this activity you will explore how to use the fx-9750G Plus with percents and decimals while reviewing the concepts of percents and decimal calculations.

## Using the fx-9750G Plus calculator:

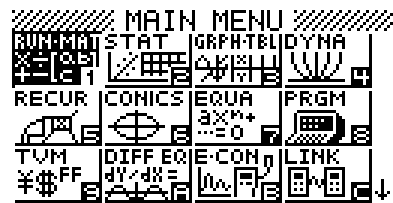
Press the **AC/ON** button, the **MENU** key and select **1** for RUN.

### Example 1:

What is 62.5 percent as a decimal?

Answer:

$$62.5 \div 100$$



On calculator:

Type **62.5 ÷ 100 EXE**

The answer appears on the right hand side of the screen: 0.625

The decimal of 62.5% is 0.625.

$$62.5/100$$

0.625

### Example 2:

What is 30% of 50?

Answer:

$$30 \div 100 \times 50$$

On calculation:

Type **30 ÷ 100 x 50 EXE**

The answer appears on the right hand side of the screen: 15

$$62.5/100$$

$$30/100 \times 50$$

0.625

15

30% of 50 is 15.

## Practice Problems:

1. What is 20% of 20?
  
2. What is 20% as a decimal?

3. What is 250% as a decimal?
4. What is 250% of 30?
5. What is 50% of 50%?
6. What percent is 20 of 50?

**Application Problems:**

1. The markdown on a piece of clothing is 20%. If the original cost is \$50, what is the sale price?
2. The sales tax in Virginia is 4.5%. If you buy some items at the store for a total of \$34.59, how much tax do you owe?
3. You find a sale at the local department store. A dress that is \$40 has a 25% off tag. Since it is a sale you assume that you are getting a good price, so you buy the dress. You continue shopping and find the same dress at another store for \$29.95 with no sale. Did you get a good deal on the dress from the first store? Why or why not?
4. To make a profit, one store marks everything up to 250% of the actual cost of the items. If they want to sell three items: one costs \$4, one \$8, and one \$20. What will they sell those three items for in their retail store? If they have a sale and mark those items down to 25% off, do they still make a profit?