## Comparing and Scaling Teaching Aid 3.1. Introduction

Introduction to Problem 3.1: Using Percents: What is the Tax?

When we buy something in a store, we often pay sales tax on the purchase price. For the sales tax, we might see percents such as 5%, 6.2%, or 8%. These are the rates by which the sales price is increased.

A sales tax of 6% means that for every dollar an item costs, a person needs to pay an additional 6 cents. That is, 6 cents for every 100 cents of an item purchased, or \$0.06 for every dollar. This is tax money collected by states. For example, with 6% tax:

Item purchased for \$1.00 Sales tax is 6% of \$1.00 or \$0.06 Total cost \$1.06

**Note:** When a percent calculation for sales tax does not come out to a whole number of cents, the standard practice is to round up the tax to the next penny.

Another way to think about this is to remember that \$1.00 is 100 pennies.

100 pennies + (6% of 100) = 100 pennies + 6 pennies = 106 pennies = \$1.06