Algebra I

Lesson 2.9 – Applications of Percents

Mrs. Snow, Instructor

Who uses percents? You do to calculate your grades! Business use percents to calculate profits; employees have taxes on their salary; savings accounts at banks have interest income, and so on.

Vocabulary:

Commission - money paid to a person or a company for making a sale. Generally commission is a percent of the sale amount.

Interest – is the amount of money charged for borrowing money or the amount of money earned when saving or loaning money.

Principal – the initial amount of money borrowed or invested.

Simple interest – interest paid only on the principal. I = Prt where I = simple interest, P = principal, r = interest rate, t = time

Tip - is the amount of money added to bill for service; it is usually calculated before taxes.

Tax - is a percent of an item's cost.

Find the simple interest rate paid annually for 3 years on a \$1200 loan at 14%.

Find the simple interest rate paid annually for 3 years on a \$1200 loan at 6%.

What is the simple interest rate after 2 years on an investment of \$3000 at 4.5% interest earned annually?

What is the amount of tip on a restaurant bill of \$21.98 if the tip is 15%?

The sales tax rate is 8.25%. What is the sales tax on a \$32.00 shirt?