

## Using percent in the real world..... (application)

To find the percent of a number, turn the percent into a decimal and multiply.

Examples:

- Sales Tax
- Tip
- Commission (salesman, realtor)
- Royalty (singer, actor, author)
- Mark ups
- Discounts > 6.6
- Simple Interest - 6.7

1. A car salesman sells a car for \$45,000 and makes 3% commission. How much does he make?

$$(45,000)(0.03) = \boxed{\$1350}$$

2. A realtor makes 4.5% commission on a house that sells for \$550,000. How much does she make?

$$(550,000)(0.045) = \boxed{\$24,750}$$

3. A singer receives 5% royalty on each CD sold.  
a. To the nearest cent, find his royalty for a CD that sells for \$16.99.  $\rightarrow$  hundredths place

$$(16.99)(0.05) = 0.8495 = \boxed{\$0.85}$$

- b. What if the album goes platinum?

What does he get now?  $\rightarrow$  sold 1 million copies

$$(1,000,000)(0.85) = \boxed{\$850,000}$$

4. Find the tax on a meal that costs \$62.88 @ 7% sales tax.

(4.4016)

- a. How much did you spend in total?  $(62.88)(0.07) = \$4.40 \rightarrow$  tax

- b. How much did you spend if you add on a 20% tip?

$$(67.28)(0.2) = \$13.46 \rightarrow$$

(13.456)

$$\begin{array}{r} \$62.88 \\ + 4.40 \\ \hline \$67.28 \\ + 13.46 \\ \hline \end{array}$$

$\boxed{\$80.74 \text{ total}}$