

11/15/18 Be able to use percents to solve real world problems.

Tip - Standard is 15% of the bill

\$ 100 dinner

$$\frac{15}{100} = \frac{x}{100}$$

\$ 15 tip

\$ 115 total bill

Sales tax - most states have

\$ 67 shoes

$$.0625(67) =$$

\$ 4.19 6.25%

\$ 71.19 total

Mark-up

\$ 225 original

\$ 49.50 22% Markup

\$ 274.50 new price

Discount

\$ 200 original

\$ 60 30% discount

\$ 140 sales price

Your bill for a meal at a restaurant is \$45. A 6% sales tax will be added to the bill. You leave a 15% tip. What is the total cost of your meal?

$$\begin{array}{l} \text{Tip} \\ \hline 45(.15) = \$6.75 \end{array}$$

$$\begin{array}{l} \text{Sales tax} \\ \hline 45(.06) = \$2.70 \end{array}$$

$$\begin{array}{r} 45 \\ 6.75 \\ + 2.70 \\ \hline \$54.45 \end{array}$$

A computer is originally priced at \$1800 and is on sale for 10% off. After continuing not to sell, the computer gets marked down an additional 15%. What is the new price of the computer?

10%
off

$$1800(.1) = 180$$
$$\begin{array}{r} 1800 \\ - 180 \\ \hline \$ 1620 \end{array}$$

Additional
15%
off

$$1620(.15) = 243$$
$$\begin{array}{r} 1620 \\ - 243 \\ \hline \$ 1377 \end{array}$$

A shoe store in Oregon is selling a pair of basketball shoes for \$145. The shoes are \$160 at a store in Washington, but they are on sale there for 15% off the original price. A sales tax of 6.5% will be added to the ~~original~~ ^{Sales} price. Should you buy the shoes in Oregon or Washington?

Oregon

Washington

\$145

\$144.84