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## Lesson 6 Reteach

## Sales Tax, Tips, and Markup

Sales Tax is a percent of the purchase price and is an amount paid in addition to the purchase price.
Tip, or gratuity, is a small amount of money in return for service. The amount a store increases the price of an item by is called the markup.

## Example 1

SOCCER Find the total cost of a $\$ 17.75$ soccer ball if the sales tax is $\mathbf{6 \%}$.

## Method 1

First, find the sales tax.
$6 \%$ of $\$ 17.75=0.06 \cdot 17.75$

$$
\approx 1.07
$$

The sales tax is $\$ 1.07$.
Next, add the sales tax to the regular price.

## Method 2

$100 \%+6 \%=106 \% \quad$ Add the percent of tax to $100 \%$.

The total cost is $106 \%$ of the regular price.
$106 \%$ of $\$ 17.75=1.06 \cdot 17.75$
$\approx 18.82$
$1.07+17.75=18.82$
The total cost of the soccer ball is $\$ 18.82$.

## Example 2

MEAL A customer wants to leave a $15 \%$ tip on a bill for $\$ 18.50$ at a restaurant.

Method 1 Add tip to regular price.
First, find the tip.
$15 \%$ of $\$ 18.50=0.15 \cdot 18.50$

$$
=2.78
$$

Next, add the tip to the bill total.
$\$ 18.50+\$ 2.78=\$ 21.28$
The total cost of the bill is $\$ 21.28$.

## Exercises

## Find the total cost to the nearest cent.

1. $\$ 22.95$ shirt, $6 \%$ tax
$\$ 24.33$
2. $\$ 24$ lunch, $15 \%$ tip
$\mathbf{\$ 2 7 . 6 0}$
3. $\$ 10.85$ book, $4 \%$ tax
\$11.28
4. $\$ 97.55$ business breakfast, $18 \%$ tip
5. $\$ 59.99$ DVD box set, $6.5 \%$ tax
$\$ 63.89$

Method 2 Add the percent of tip to $\mathbf{1 0 0 \%}$.
$100 \%+15 \%=115 \% \quad$ Add the percent of tip to $100 \%$.

The total cost is $115 \%$ of the bill.

$$
\begin{aligned}
115 \% \text { of } \$ 18.50 & =1.15 \cdot 18.50 \\
& =21.28
\end{aligned}
$$

\$115.11
6. $\$ 37.65$ dinner, $15 \%$ tip
$\$ 43.30$

