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 6%.

Method 1	Method 2	
First, find the sales tax.	100% + 6% = 106%	Add the percent of tax
6% of $17.75 = 0.06 \cdot 17.75$		to 100%.
≈ 1.07	The total cost is 106% of the regular price. 106% of $17.75 = 1.06 \cdot 17.75$	
The sales tax is \$1.07.		
Next, add the sales tax to the regular price.	≈ 18.82	2
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.	Method 2 Add the p	ercent of tip to 100%.
First, find the tip.	100% + 15% = 115%	Add the percent of tip
15% of $18.50 = 0.15 \cdot 18.50$		to 100%.
= 2.78	The total cost is 115%	of the bill.
Next, add the tip to the bill total.	115% of $18.50 = 1.15$	• 18.50
18.50 + 2.78 = 21.28	= 21.2	8
The total cost of the bill is \$21.28.		
Exercises		
Find the total cost to the nearest cent.		

1.	\$22.95 shirt, 6% tax	2.	\$24 lunch, 15% tip
3.	\$10.85 book, 4% tax	4.	\$97.55 business breakfast, 18% tip
5.	\$59.99 DVD box set, 6.5% tax	6.	\$37.65 dinner, 15% tip