# Key Concept and Vocabulary

To find the tip on a food bill at a restaurant, write the percent as a decimal or fraction and multiply it by the cost of the food bill.



#### **Visual Model**

0%	20%	40%	60%	80%	100%
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0	8	16	24	32	40

A 20% tip on a food bill of \$40 is \$8.

## **Application Examples**

**1.** Your food bill at a restaurant is \$8.49. You leave a 15% tip.

Estimate: Round 8.49 to 10.

 $0.15 \times 10 = 1.5$ 

• The estimate for the tip is \$1.50.

**Actual**:  $0.15 \cdot 8.49 \approx 1.27$ 

The actual tip is \$1.27.

**2.** Your food bill at a restaurant is \$15.83. You leave a 20% tip.

Estimate: Round 15.83 to 16.

 $0.2 \times 16 = 3.2$ 

The estimate for the tip is \$3.20.

**Actual:**  $0.2 \times 15.83 \approx 3.17$ 

The actual tip is \$3.17.

## PRACTICE MAKES PURR-FECT

Check your answers at BigIdeasMath.com. 🛑

#### Estimate the tip. Then find the actual tip.

Food bill: \$33.65; Tip: 15%	\$4.50; \$5.05
Food bill: \$44.28; Tip: 20%	\$9; \$8.86
Food bill: \$11.17; Tip: 15%	\$1.50; \$1.68
Food bill: \$12.37; Tip: 20%	\$2; \$2.47
Food bill: \$23.16; Tip: 15%	\$3; \$3.47
Food bill: \$16.21; Tip: 20%	\$4; \$3.24
Food bill: \$37.54; Tip: 25%	\$10; \$9.39
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	Food bill: \$44.28; Tip: 20% Food bill: \$11.17; Tip: 15% Food bill: \$12.37; Tip: 20%