Section 10-2: Sales, Discounts, Tips & Taxes

Objectives:

- Calculate the sales tax, tax rate, or the total cost of a given item.
- Calculate the tip, percent of tip, or the total bill.
- Calculate amount of discount, percent of discount, or sale price.

Sales Tax:

Tip Amount:

$$\frac{\text{Amount of Tip}}{\text{Original Price}} = \frac{\%}{100}$$

<u>Discount</u>:

<u>Ex 1</u>:

\$8.00 chocolate, tax rate 7.5% What is the total cost?

$$\frac{\times}{18.00} \times \frac{7.5\%}{100\%}$$
 Total Cost $\frac{1800 \times = 60}{100}$ Amt. $\frac{180}{100} \times \frac{60}{100}$ Amt. $\frac{180}{100} \times \frac{100}{100}$

<u>Ex 2</u>:

Outback bill \$30, tip 18% How much is the total bill?

$$\frac{x_{5}x_{100}}{30}$$
 Total Bill $30+5.40$

Ant of 100 100 100 35.40

Tip $x=45.40$

<u>Ex 3</u>:

\$34.95 jeans, 10% off coupon Find the total cost.

$$\frac{x}{34.95} \approx \frac{10}{100}$$
 Total Cost $34.95 \approx 3.50$ Ant or 100 $34.95 \approx 3.495 \approx 3.495 \approx 3.495 \approx 3.50$ Discount $x = 3.495 \approx 3.50$

<u>Ex 4</u>:

Find the % of discount for a video game:

Reg price \$50

Sale price \$35

Solution 15



