

Lesson 4.7 Problem Solving

Solve each problem.

- 1. Mika's lunch came to \$12.50. She wants to leave an 18% tip. How much should she leave?

She should leave a _____ tip.

- 2. A store is having a 25%-off sale. If an item originally cost \$19.36, how much should be taken off the price?

_____ should be taken off the original price.

- 3. Dario bought a new bike for \$90.00. Sales tax is $5\frac{1}{2}\%$. How much tax does he have to pay? How much is his total bill?

Dario's tax is _____.

Dario's total bill is _____.

- 4. Tai used a coupon and bought a sweater for \$32. The full retail price of the sweater was \$40. What percent did Tai save with her coupon?

Tai saved _____% with her coupon.

- 5. Owen made a down payment of \$1,600 on a car. That was 20% of the total price. What was the total price of the car?

The total price of the car was _____.

- 6. A store allows customers to buy 3 items of the same price and get 2 more of the same items free. What percent savings does this represent?

This represents a _____% savings.

**Check What You Learned**

Change each of the following to percents.

$\frac{2}{5} = \underline{\hspace{2cm}}\%$

$\frac{9}{10} = \underline{\hspace{2cm}}\%$

$\frac{3}{20} = \underline{\hspace{2cm}}\%$

$0.42 = \underline{\hspace{2cm}}\%$

$1.3 = \underline{\hspace{2cm}}\%$

$0.01 = \underline{\hspace{2cm}}\%$

Change each of the following to decimals.

$53\% = \underline{\hspace{2cm}}$

$250\% = \underline{\hspace{2cm}}$

$8\% = \underline{\hspace{2cm}}$

$7\frac{3}{4}\% = \underline{\hspace{2cm}}$

$29\frac{1}{3}\% = \underline{\hspace{2cm}}$

$5\frac{1}{10}\% = \underline{\hspace{2cm}}$

Change each of the following to fractions in simplest form.

$475\% = \underline{\hspace{2cm}}$

$60\% = \underline{\hspace{2cm}}$

$155\% = \underline{\hspace{2cm}}$

Complete the following.

$\underline{\hspace{2cm}}$ is 20% of 10.

$\underline{\hspace{2cm}}$ is 5% of 76.

$\underline{\hspace{2cm}}$ is 60% of 120.

$\underline{\hspace{2cm}}$ is 140% of 80.

$\underline{\hspace{2cm}}$ is 75% of 0.4.

$\underline{\hspace{2cm}}$ is 10% of 0.08.

95 is $\underline{\hspace{2cm}}\%$ of 23.75.

60 is $\underline{\hspace{2cm}}\%$ of 80.

45 is $\underline{\hspace{2cm}}\%$ of 300.

0.15 is $\underline{\hspace{2cm}}\%$ of 30.

33 is $\underline{\hspace{2cm}}\%$ of 110.

63 is $\underline{\hspace{2cm}}\%$ of 126.

11 is 80% of $\underline{\hspace{2cm}}$.

0.5 is 10% of $\underline{\hspace{2cm}}$.

24 is 300% of $\underline{\hspace{2cm}}$.

8 is 40% of $\underline{\hspace{2cm}}$.

45 is 4.5% of $\underline{\hspace{2cm}}$.

123.75 is 75% of $\underline{\hspace{2cm}}$.