

Name \_\_\_\_\_

Date \_\_\_\_\_

Mr. Tallman

**Homework #40 - Multi-Step Percents Day Two**

1) Alec ordered pizza and wings to be delivered to his house. He wants to tip the delivery person 10% of the total bill. The bill was \$24.99 and then there was an 8% tax?

A) What is the tax amount?

orig: 24.99

tax = orig (.08)

$24.99 + 2 = \$26.99$

tax: X

$X = 24.99 (.08)$

%: 8

$X = \$2$

B) How much is the tip?

orig: 24.99

tip = orig (.1)

~~$26.99 + 2.50 = \$29.49$~~

tip: X

$X = 24.99 (.1)$

%: 10

$X = \$2.50$

C) What is the total price Alec must pay? Round to the nearest cent.

$24.99 + 2 + 2.50 = \$29.49$

2) Jillian went to a restaurant for dinner and her bill was \$53.50. The restaurant charges an 8.5% sale tax and Jillian wants to leave her waiter a 20% tip? What is the final cost Jillian must pay for dinner?

orig: 53.50

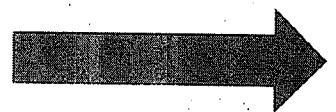
$X = 53.50 (.285)$

tax/tip: X

$X = \$15.25$

%: 28.5

$53.50 + 15.25 = \$68.75$



3) Rose purchases a \$29.95 blanket, a \$14.95 mini blind, an adjustable screen for \$15.95, and a 12-foot extension cord for \$9.49. The sales tax rate is 6%.

A) What is the tax amount?

$$\text{Total cost of items: } 29.95 + 14.95 + 15.95 + 9.49 \\ = \$70.34$$

$$\text{Orig: } 70.34$$

$$\text{tax} = \text{orig}(\%)$$

$$\text{tax: } x$$

$$x = 70.34(0.06)$$

$$\%: 6\%$$

$$x = \$4.24$$

B) What is the total cost of the items, including tax?

$$70.34 + 4.24 = \$74.58$$

4) Christian's mom works at the concession stand during sporting events. She told him they buy candy bars for \$0.75 each and mark them up 40% to sell at the concession stand.

A) What is the amount of the markup?

$$\text{Orig: } 0.75$$

$$\text{MU} = \text{orig}(\%)$$

$$\text{mu: } x$$

$$x = 0.75(0.4)$$

$$\%: 40$$

$$x = \$0.30$$

B) How much does the concession stand charge for each candy bar?

$$0.75 + 0.30 = \$1.05$$

C) What would be the concession stand's profit if they sold 100 candy bars?

$$0.30(100) = \$30 \text{ profit}$$