Name_____Date_____Per_____

Solving Equations Word Problem

For the annual bake sale, Mr. Ta decides to bake cupcakes to sell. Mr. Ta goes to Target and spends $22.50 on ingredients to make a variety of cupcakes pictured to the right. He is able to make 30 cupcakes. Mr. Ta sold all of his cupcakes at the bake sale and was able to make $97.50 in profit. What is the price of one of Mr. Ta's cupcake?

What problem are you trying to figure out?	What do you already know from the problem?
Cost of 1 Cupcake	30 cupcakes sold $22.50 spent on ingredients $97.50 made in profit

Create an equation to represent the problem and solve. Show all your work.

$$30c - 22.50 = 97.50$$

Cost of 30 cupcakes $ spent on ingredients   Total made in profit

Solve

$$30c - 22.50 = 97.50$$

Add 22.50 both side

$$+22.50 \qquad +22.50$$

$$\frac{30c}{30} = \frac{120.00}{30}$$

Divide by 30 both sides

$$c = \$4$$