

Tip, Tax, Discount

Discounts = money goes down

Tip + Tax = money goes up

① Total Price

$$\frac{6}{100} = \frac{x}{49.99}$$

$$100x = 49.99(6)$$

$$100x = 299.94$$

$$\frac{299.94}{100} = x$$

$$x = 3.00$$

	49.99	
	+ 3.00	
	<u>52.99</u>	

② Total cost

$$\frac{4.5}{100} = \frac{x}{20.40}$$

$$100x = 20.40(4.5)$$

$$100x = 91.80$$

$$\frac{91.80}{100} = x$$

$$x = 0.92 \text{ tax}$$

$$\text{Total} = 20.40 + 0.92$$

$$21.32$$

③ $\frac{18}{100} = \frac{x}{12.50}$ only tip

$$100x = 12.50(18)$$

$$100x = 225$$

$$\frac{225}{100} = x$$

$$x = 2.25 \text{ tip}$$

④ Has 40 need total

$$\frac{8}{100} = \frac{x}{36.67}$$

$$100x = 36.67(8)$$

$$100x = 293.36$$

$$\frac{293.36}{100} = x$$

$$x = 2.93$$

$$36.67 + 2.93 = 39.60$$

yes she has enough

1. Jennie wants to buy a pair of jeans for \$49.99. What will she pay for the jeans if the sales tax is 6%?

2. Matt finds a shirt for \$20.40. How much tax will be charged if the tax rate is 4.5%? What will his total cost be?

3. Antonio orders spaghetti, a salad, and a Coke for dinner. His bill comes to \$12.50. If he wants to leave the server a tip of 18%, how much will the server make?

4. Jackie has forty dollars to spend. She wants to buy a new softball bat that costs \$36.67. She knows the tax rate is 8%. Will she have enough money to buy the bat?

Bonus!

5. The Augustin family went to dinner to celebrate a birthday. Once dinner and dessert had been ordered, the subtotal of the food was \$87.65. If this was before 7% tax and 20% gratuity, how much did the birthday dinner cost the family in all?