



5. Alicia has a booth at the flea market where she sells purses and wallets. All of her purses are the same price and all of her wallets are the same price. The first hour of the day, she sells 10 purses and 6 wallets for a total of \$193. The second hour, she sells 8 purses and 10 wallets for a total of \$183. How much does Alicia charge for each purse and each wallet?

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Write a system of equations to represent each problem situation. Solve the system of equations using any method and answer any associated questions.

1. Jun received two different job offers to become a real estate sales agent. Dream Homes offered Jun a base salary of \$20,000 per year plus a 2% commission on all real estate sold. Amazing Homes offered Jun a base salary of \$25,000 per year plus a 1% commission on all real estate sold. Determine the amount of real estate sales in dollars for which both real estate companies will pay Jun the same amount. Explain which offer Jun should accept based on the amount of real estate sales he expects to have.

3. Renee has two job offers to be a door-to-door food processor salesperson. Pro Process Processors offers her a base salary of \$15,000 per year plus an additional \$25 for each processor she sells. Puree Processors offers her a base salary of \$18,000 per year plus an additional \$21 for each processor she sells. Determine the number of food processors Renee would have to sell for both companies to pay her the same amount. Explain which job offer Renee should accept based on the number of food processors she expects to sell.

5. Serena has job offers from two car dealerships. Classic Cars offers her a base salary of \$22,000 per year plus an additional 1% commission on all sales she makes. Sweet Rides offers her a base salary of \$13,000 per year plus an additional 2.5% commission on all sales she makes. Determine the amount of car sales in dollars for which both dealerships will pay Serena the same amount. Explain which offer Serena should accept based on the amount of car sales she expects to have.