

Solve on a separate sheet of paper.

1. In a candy shop, chocolate which sells for \$4 a pound is mixed with nuts which are sold for \$2.50 a pound are mixed to form a chocolate-nut candy which sells for \$3.50 a pound. How much of each are used to make 30 pounds of the mixture?
2. A coffee mix is to be made that sells for \$2.50 by mixing two types of coffee. The cafe has 40 mL of coffee that costs \$3.00. How much of another coffee that costs \$1.50 should the cafe mix with the first?
3. Dennis mowed his next door neighbor's lawn for a handful of dimes and nickels, 80 coins in all. Upon completing the job he counted out the coins and it came to \$6.60. How many of each coin did he earn?
4. On Monday Joe bought 10 cups of coffee and 5 doughnuts for his office at the cost of \$16.50. It turns out that the doughnuts were more popular than the coffee. On Tuesday he bought 5 cups of coffee and 10 doughnuts for a total of \$14.25. How much was each cup of coffee?
5. **COST/WEIGHT PROBLEM:** Tropicana plans to make 13.25 pound gift boxes of oranges and grapefruits. Each box is to have a retail value of \$21.00. Each orange weighs 0.50 pounds and has a retail value of \$0.75, while each grapefruit weighs 0.75 pounds and has a retail value of \$1.25. Write a system of equations to determine how many oranges and grapefruits should be included in each box.

6. **COIN PROBLEM:**

Mackenzie "accidentally" broke her piggy bank to find a combined total of 42 dimes and quarters. If the coins totaled \$8.25, how many dimes did she have in her piggy bank? How many quarters?

7. Ben mowed his next-door neighbor's lawn for a handful of dimes and nickels, 80 coins in all. Upon completing the job, he counted out the coins and it came to \$6.60. Write a system of equations to determine how many of each coin he earned.
8. Students can buy tickets to a Lenape basketball game for \$1. The admission for adults is \$2. If 350 tickets are sold and the total money made is \$450, how many student and adult tickets were purchased?

