

3.1 Application Examples

1. A veterinarian needs 60 pounds of dog food that is 15% protein. He will combine a beef mix that is 18% protein with a bacon mix that is 9% protein. How many pounds of each does he need to make the 15% protein mixture?
2. A coffee blend contains Sumatra beans which cost \$5/lb, and Kona beans, which cost \$13/lb. If the blend costs \$10/lb, how much of each type of coffee is in 50 lb of the blend?
3. The Miller and Benson families went to a theme park. The Millers bought 6 adult and 15 childrens tickets for \$423. The Bensons bought 5 adult and 9 children tickets for \$293. Find the cost of each ticket.