

Find the feasible region for the system:

$$2x + 3y \geq 19$$

$$3x + 4y \leq 30$$

$$2 \leq x \leq 5$$

Solve: You have \$20,000 to invest. The first investment offers 6%, and the second offers 3% simple interest. You earned \$960 in interest for the year. How much did you invest in each?

Solve: You are making a blend of coffee with two beans. The first bean costs \$4.00 per pound. The second bean costs \$6.00 per pound. You need a total of 2 pounds of coffee to cost \$5.50 per pound. How would you make the blend?