Topic 15: Solve linear applications

Set up an equation and solve.

- 1. Raisins sell for \$4.50 per pound and bran flakes sell for \$2.80 per pound. How many pounds of raisins should be mixed with 12 pounds of bran flakes to get a mixture that sells for \$3.14?
- 2. A bank loaned out \$12,000, part of it at the rate of 8% per year and the rest at the rate of 18% per year. If the interest received totaled \$1000, how much was loaned at 8%?
- 3. Tanya, a long-distance runner, runs at an average velocity of 8 miles per hour. Two hours after Tanya leaves your house, you leave in your Honda and follow the same route. If your average velocity is 40 miles per hour, how long will it be before you catch up with Tanya?

Answers

- 1. 3 lbs. of raisins
- 2. \$11,600
- 3. ½ hour