

Unit 1: Systems of Linear Equations

Lesson 9: Solving Problems Day 1

Mixture Problems

Today we will....

- model real-life problems using linear systems
- use elimination or substitution to solve real-life problems

Example 1:

A candy store is preparing a mixture of chocolate raisins and chocolate peanuts. The raisins sell for \$2.25/kg and the peanuts for \$1.75/kg. How much of each type must be mixed to make 20 kg of a mixture that will sell for \$41?

Example 2:

Marcia, a lab technician, needs three litres of an 8% saline solution. She has a 5% saline solution and a 9% saline solution in the lab stock room. How many litres of the 5% and 9% solution should she mix together?

Practice:

Pg. 52 # 17, 20,

Pg. 94 # 16, 17

Pg. 103 # 14, 15, 16