

7.7

Mixture Problems

Example 1

A grocer makes a natural breakfast cereal by mixing oat cereal costing \$2 per kilogram with dried fruits costing \$9 per kilogram. How many kilograms of each are needed to make 60 kg of cereal costing \$3.75 per kilogram.

	<i>No. of kg X Price =</i>		<i>Total</i>
Cereal			
Fruits			
Mix			

Example 2

How many liters of water must be added to 20 L of a 24% acid solution to make a solution that is 8% acid.

	<i>#of L X % Acid =</i>		<i>Total</i>
Acid			
Water			
Mix			

Example 3

How many kilograms of water must be evaporated from 12 kg of 5% salt solution to produce a solution that is 30% salt?

	<i>#of kg X % Salt =</i>		<i>Amount Salt</i>
Original			
Water			
Mix			