Applications of Linear Systems:
Mixture Problems

Example 1:

A candy store sells milk chocolate for $\$4$ per pound and sells dark chocolate for $\$5$ per pound. How many pounds of each type must be mixed to make 20 pounds that is $\$4.25$ per pound?

	# of pounds	Price/lb.	Cost
Milk Chocolate	x		
Dark Chocolate	y		
Mixture			

Now that you've completed the chart, write a system of equations and solve:

$$x + y = \_\_\_\_\_$$

$$\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_$$

Applications of Linear Systems:
Mixture Problems — Practice Problems

A merchant wishes to mix peanuts worth $3 per lb. with almonds worth $6 per lb. to get 90 lbs. of a mixture worth $4 per lb. How many pounds of peanuts and almonds will be needed?

	# of pounds	Price/lb.	Cost
Peanuts			
Almonds			
Mixture			