9.3

SOLVING PROBLEMS WITH TWO VARIABLES

Old Method

Solving with only one variable

John has 15 coins, all dimes and quarters, worth $2.55. How many dimes and how many quarters does John have?

	No.	X Value=	Total
Cereal			
Fruits			

NEW Method

Solving with two variables

John has 15 coins, all dimes and quarters, worth $2.55. How many dimes and how many quarters does John have?

Example 2

The sum of two numbers is 5. The larger number is 14 more than twice the smaller number. Find the numbers.

Example 3

A pet shop sold 23 puppies and kittens in one week. They sold 9 more puppies than kittens. How many of each did they sell?

Example 4

A bank teller has 112 5-dollar bills and 10-dollar bills for a total of $720. How many of each does the teller have?

Example 5

If you buy six pens and one mechanical pencil, you'll get on $1 change for your $10 bill. But if you buy four pens and two mechanical pencils, you'll get $2 change. How much does each pen and pencil cost?