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Define the variables:  
x = Lg #  
y = Sm #

The larger number is 50 and the smaller number is 20.

Express your solution in the context of the problem.

Solve the system:  
Which method works best?

What is the question asking?  
To find the #s

Write Equation #1:  
 $x + y = 70$

Equation 1: The sum of two numbers is 70.

Write Equation #2:  
 $x = 2y + 10$

Equation 2: The larger number is ten more than twice the smaller number.

The sum of two numbers is 70. The larger number is ten more than twice the smaller number. Find both numbers.

Solution Work:

$$\begin{aligned} x &= 2y + 10 \\ x + y &= 70 \\ 2y + 10 + y &= 70 \\ 3y + 10 &= 70 \\ -10 & \quad -10 \\ \hline 3y &= 60 \\ \frac{3y}{3} &= \frac{60}{3} \\ \text{Small \# } y &= 20 \end{aligned}$$

$x = 2(20) + 10$   
 $x = 50$   
Large.



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