Story Problem	
Hanna has $11.20 in a jar that contains only nickels and dimes. There are 140 coins in the jar. How many of each coin does Hanna have?	
Let Statements	**System**
Let n = number of nickels Let d = number of dimes	n + d = 140 0.05 n + 0.10d = 11.20
Solve for a single variable.	**Substitute and Solve.**
Plug back in to find the other variable.	**Write the solution.**

Story Problem	
A total of 243 adults and children are at a movie theater. There are 109 more adults than children in the theater. How many adults are there? How many children are there?	
Let Statements	**System**
Let a = number of adults Let c = number of children	a + c = 243 c + 109 = a
Solve for a single variable.	**Substitute and Solve.**
Plug back in to find the other variable.	**Write the solution.**

Story Problem	
Tamika would like to go fishing at one of two catfish farms close to her home. Floyd's Catfish Farm charges a $5 fee to fish plus $2 per pound of fish caught. The Miller's Catfish Farm does not charge a fee to fish, but charges $3 per pound of fish caught. When is the charge the same?	
Let Statements	**System**
Let p = pounds of fish Let t = total cost	t = 5 + 2p t = 3p
Solve for a single variable.	**Substitute and Solve.**
Plug back in to find the other variable.	**Write the solution.**

Story Problem	
Ben is 12 years older than Emily The sum of their ages is 64. How old is Ben? How old is Emily?	
Let Statements	**System**
Let b = Ben's age Let e = Emily's age	
Solve for a single variable.	**Substitute and Solve.**
Plug back in to find the other variable.	**Write the solution.**