

- . Christina and Frieda want to buy the same book. Christina has $\frac{3}{4}$ of the money needed to buy the book and Frieda has half of the money needed to buy the book. If the book was \$3 cheaper, then together they would have exactly enough money to buy 2 copies of the book. What is the original price of the book?

Example 1: Write each sentence as an algebraic equation.

Sentence	Algebraic Equation
A number increased by nine is fifteen.	
Twice a number is eighteen.	
Four less than a number is twenty.	
A number divided by six is eight.	

Example 2: Write each sentence as an algebraic equation.

Sentence	Algebraic Equation
Twice a number, decreased by twenty-nine, is seven.	
Thirty-two is twice a number increased by eight.	
The quotient of fifty and five more than a number is ten.	
Twelve is sixteen less than four times a number.	

Example 3: Write each sentence as an algebraic equation.

Sentence	Algebraic Equation
Eleni is x years old. In thirteen years she will be twenty-four years old.	
Each piece of candy costs 25 cents. The price of h pieces of candy is \$2.00.	
Suzanne made a withdrawal of d dollars from her savings account. Her old balance was \$350, and her new balance is \$280.	
A large pizza pie with 15 slices is shared among p students so that each student's share is 3 slices.	