EXERCISE 12 - Problem Solving

Write down an algebraic equation to represent each of the problems below, then solve the problem.

	SOLUTION
 Jane drove her car 120km to a town A, then drove on to town B. If she drove a total of 310km, how far is it from town A to town A? 	
The equation is:	
2. If two consecutive numbers add up to 77, what is the smaller of the two numbers?	
The equation is:	
3. The product of two consecutive numbers is 72. What is the sum of these two numbers?	
The equation is:	
4. The sum of two consecutive even numbers is 94. What was the smaller number?	
The equation is:	
5. Fifteen more than half of a certain number is 24. What is the number?	· · · ·
The equation is:	
6. The sum of a certain positive number and its square is 90. What is the number?	
The equation is:	
 A chair was sold at \$312 after a 20% profit was added to the cost price. What was the original cost price of the chair? 	
The equation is:	
8. If Wendy received twice as much money as Bill and together they received a total of \$135, how much did Bill receive?	
The equation is:	
9. If I paid 25 cents more for an apple than I paid for a banana, and I paid \$1 35 for both, how much did I pay for the banana?	
Ihe equation is:	
10. Three people won \$1333. They kept \$208 to buy more tickets and the remainder was shared equally between them. How much did each person receive?	
The equation is:	· · ·

575 = x = 333 = 3375
strad $22 = x + 25 = 12$
$S^* \Sigma^{x+x} = 132 : x = 342$
$7.1200 \times x = 3312 $; $x = 3260$
$6 = x : 06 = {}_{7}x + x \cdot 9$
$5.\frac{3}{2}+15=24$; $x=18$
$\nabla^{+} x : z_{0} = (z + x) + x$
(1 + x) + x = (1 + x) + (1 + x)
$8c = x : /L = (1+x)+x \cdot 7$
1: 150 + x = 310
SOLAMENT ZI OSIDIEXH