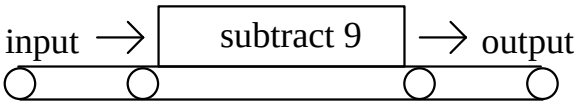
Algebra I Worksheet #3 Unit 1 Selected Solutions

Complete the table for each input-output chart shown.



	input	output
6.	2	**-7**
7.	15	**6**
8.	37	**28**
9.	71	**62**
10.	p	**p – 9**

Find the value of each of the following expressions.

21. $3 \cdot 2 + 8 =$ **14**
$6 + 8$

24. $3 \cdot (2 + 8) =$ **30**
$3 \cdot 10$

27. $10 - 6 \div 2 =$ **7**
$10 - 3$

30. $(10 - 6) \div 2 =$ **2**
$4 \div 2$

Find the value of each expression, if x = 9.

36. $x + 17 =$ **26**
$9 + 17$

39. $x \div 3 =$ **3**
$9 \div 3$

42. $12 + x \div 3 =$ **15**
$12 + 9 \div 3$
$12 + 3$

45. $(12 + x) \div 3 =$ **7**
$(12 + 9) \div 3$
$21 \div 3$

Simplify each algebraic expression.

54. $8x + 5x =$ **13x**

57. $9n + n =$ **10n**
$9n + 1n$

60. $13m - 8m =$ **5m**

63. $10ac - 3ac =$ **7ac**