Algebra I Worksheet #3 Unit 2 Selected Solutions

Complete the table for each input-output chart shown.

	5.	6.	7.	8.
Input	x + 45 = 68	x - 34 = 95	4x = 228	$\frac{x}{8} = 24$
Operation	subtract 45 from both sides	add 34 to both sides	divide both sides by 4	multiply both sides by 8
Output	x = 23	x = 129	x = 57	x = 192

Solve the following equations.

18.
$$x - 19 = 43$$

 $+19 + 19$
 $x = 62$

19.
$$\frac{7x}{7} = \frac{190}{7}$$

$$x = 28$$

20.
$$9 \cdot \frac{x}{9} = 17 \cdot 9$$

$$x = 153$$

Write an algebraic expression for each of the following.

- 21. the distance driven at 50 miles per hour for k hours ____50k__ $distance = rate \cdot time$
- 26. Mary is five years younger than her brother Bill. If B represents Bill age, then represent Maryøs age in terms of B. B-5
- 30. Sarah has twice as many marbles as Ted. John has 6 fewer marbles than Ted. If t represents the number of marbles Ted has, then represent each of the following in terms of t.

The number of marbles that Sarah has: <u>2t</u>

The number of marbles that John has: t-6