Name: _____ Date: _____

6.1 Warm Up

1. Choose a variable to represent each unknown.

example: t = time

a) distance to stop _____

b) row number _____

c) cost of a ticket _____

d) age of a person _____

2. Rewrite each statement as an algebraic equation.

a) the cost of a monthly bus pass is 20 times the price of a day ticket

c = cost of a pass; t = price of a ticket

$c =$ _____t

b) the distance to stop is half the speed of the boat

Ask yourself, "Do I add, subtract, multiply, or divide?"

3. For each chart, describe a pattern to go from the input to the output. Then, write an equation for each.

a)

Input, x	Output, y
3	30
1	10
4	40
8	80

Pattern:

multiply x by _____

Equation:

_____

b)

Input, x	Output, y
1	7
3	9
5	11
6	12

Pattern:

_____

Equation:

_____

4. Solve.

a) $4p + 3 = 19$

$4p + 3 -$ _____ $= 19 -$ _____

$4p =$ _____

$$\frac{4p}{\square} = \frac{\square}{\square}$$

$p =$ _____

b) $-6a - 43 = -25$