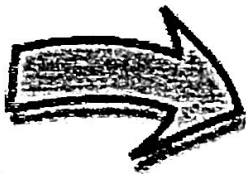


Name Stew Dent

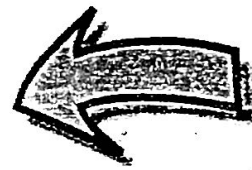
Input/Output Tables and Equations (EE.9)

FUNCTION

input
(independent)
variable



X		Y
0	[?]	3
1	[?]	4
2	[?]	5
3	[?]	6
4	[?]	7



Output
(dependent)
variable

How Do WE
GET [Y] ?
(the output)

RULE: $y = x + 3$

We add 3 to [X]
(the input.)

Use the input/output table above:

- 1) If the input number is 8, what is the output number?

$$x = 8 \quad y = 11$$

- 2) Write an algebraic equation (rule) that describes the output pattern.

$$y = x + 3$$

TWO STEP
RULE

Input k	Output
\$12	\$5
\$27	\$10
\$36	\$13
\$48	\$17

one third
 of tips
 +1
 parking
 fee

- 5) Christina keeps 1/3 of the tips she earns. Also, she gets \$1 each night to reimburse her parking fee. This information is shown in the input/output table above. Write an algebraic equation (rule) that describes the output pattern.

$$\text{Output} = k \div 3 + 1$$

- 6) How much would Christina keep a night if she takes in \$96?

$$96 \div 3 + 1 = 32 + 1 = \boxed{\$33}$$

- 7) Mrs. Walker's classroom has a tile floor. The students are making stars to put in the center of 4-tile groups. The input/output table below shows the pattern. Write an algebraic equation (rule) that describes the output pattern.

Input t	Output
4	1
8	2
12	3

$$\boxed{\text{Output} = t \div 4}$$

{ $\div 4$ }