Strand:
Skill Addressed: Linear Relationships Explored Activity:

Algebra

Part 1: Table of Values

Name:_KEY $\qquad$
Blk: $\qquad$

|  | 7 | 8 | 9 |
| :---: | :---: | :---: | :---: |
|  | 10 | 11 | 12 |
| Row 1 | 13 | 14 | 15 |
| Row 2 | 16 | 17 | 18 |
| Row 3 | 19 | 20 | 21 |
| Row 4 | 22 | 23 |  |
|  |  |  |  |

Joy made 3 columns and filled them with consecutive integers.

If 13 is her "start" number, complete the following T -Table of values:

| Which <br> Term? | Value of <br> Term |
| :---: | :---: |
| $(x)$ | $(y)$ |
| 1 | 13 |
| 2 | 16 |
| 3 | 19 |
| 4 | 22 |
|  |  |

$(1 \times 3)+10$
$(2 \times 3)+10$
$(3 \times 3)+10$
$(4 \times 3)+10$

1) Can you explain to Joy how to find the value of a term if she knows that her row is \#6?
$(6 \times 3)+10$
2) Is there a pattern for finding a value when you know the row number? Explain by using an algebraic expression or function.

If the row number is $x$, then $(x \times 3)+10$ or $3 x+10$
As a function, it can be written as: $\quad y=3 x+10$
3) Write to explain to Joy how to find any value, if you know the row number.
Multiply the row number by three, and then add 10.

