Module 11
Lesson 1

- ★ I will be able to identify independent and dependent variables.
- ★ I will be able to complete a function table.

Function Table:

Independent

Way to organize the input-output values

Dependent

Input (x)	3x + 5	Output (y)
0	$3 \cdot 0 + 5$	5
3	$3 \cdot 3 + 5$	14
9	$3 \cdot 9 + 5$	32

Practice 1:

7 + x

The output is 7 more than the input. Complete a function table.

Input(x)	x+7	Output (y)
10	10+7	17
12	12+7	19
14	14+7	21

Practice 2:

$5 \times x$

$5 \cdot x$

$x \cdot 5$

The output is 5 times the input. Complete a function table for this relation.

Input (x)	$5x$	Output (y)
8	$8 \cdot 5$	40
10	$5 \cdot 10$	50
12	$12 \cdot 5$	60

Practice 3:

Input (x)	3x	Output (y)
4	3·4	12
8	8·3	24
10	10·3	30

Practice 4:

Briana bikes 12 miles per hour. The function rule that represents the situation is 12x, where x is the number of hours. Make a table to find how many hours she has biked when she has gone 12, 36, and 48 miles.

hour miles

Input (x)	12x	Output (y)
1	12·1	12
3	12·3	36
4	12·4	48

$12x = 12$
$\div 12 \quad \div 12$
$x = 1$

$12x = 48$
$\div 12 \quad \div 12$
$x = 4$

$12x = 36$
$\div 12 \quad \div 12$
$x = 3$

When you have completed both sides
Turn in your work and the worksheet

Tape in the notes found on the front table