TASK 1: Linear Relations - Part 1 (Sec 4.1) Week 11 Name: _____

Tuesday, May

The following is to be completed and passed in by **May nd**.

- ➔ **Please note**: I will be collecting your work at the end of the task and expect to see the following (you will be marked on this):
  - Each section of work (mini-lesson, examples, sets of questions/answers, etc.) must be properly labeled.
  - Work showing that you tried each of the examples requested
  - Answers for each question (not just the final answers!! Show work where possible!)
  - It should be clearly visible that your work was corrected and some questions were done over.
- ➔ It is necessary that you stay on task and not be disruptive during class time. There will be "guided learning" going on throughout each class (I will be working with a few students at a time, going over class material). The rubric below (#1 specifically) will reflect your effort to cooperate. This is very necessary in order for guided learning to take place.

➔ **Day 1**

- **Whole Class Activity: "Finding a pattern". Work in groups to answer all problems. Use diagrams and show all work. Final answers should be in sentence to completely answer the question!**

➔ **Day 2**

- **Mini-Lesson #1: Substiuting a number for a variable and making a table of values.**
- **Complete the following:**
  - **"Why did Simeon Wrench Sleep Under his car?"**
  - **Function Tables**

➔ **Day 3**

- **Mini-Lesson #2: Creating an equation to describe a pattern.**
- **Complete the following:**
  - Questions From the Textbook: Page 159 –161 #8, 11, 12, 14, 15 & 19
  - **Extra Practice Worksheet: TASK 1**

➔ **Day 4**

- **Quiz: Section 4.1 (Week 11)**

When you are all done, please make sure to double check to make sure you have done everything your task required. Also, please make sure to fill out the rubric and mark yourself. Once you are all done this, you can make sure everything is in order, and then pass it all in (including the rubric).

Task #1 Rubric: Linear Relations (Part1- Section 4.1) Week 11

Please make sure to go through the "Checklist" below before handing in your task!

Item	Description	Checklist ✓	Evaluation
1. Work ethic	**Worked quietly and independently without disrupting other students. Stayed on task and used class time effectively.**		/5
2. Patterns	Whole class activity: **Finding a Pattern**		/10
3. Table of Values	Mini Lesson: **Sustituting and Table of values**		/5
	Complete the 2 Worksheets: **"Why did Simeon Wrench sleep on his car?" & Function Tables**		/15
	Marked and corrected Practice questions. Incorrect questions were redone correctly.		/5
4. Section 4.1 Writing Equations to Describe a Pattern	Mini Lesson: **Creating Equations**		/5
	Textbook Questions Pg. 159 – 161 #8, 11, 12, 14, 15 & 19		/15
	Marked and corrected Practice questions. Incorrect questions were redone correctly.		/5
	Extra Practice Worksheet: TASK 1		/10
	Marked and corrected Practice questions. Incorrect questions were redone correctly.		/5
5. Math Activity	1. Attempt questions from the UNB Math Competition 2. Play another Math game		/10
6. Organization of the week's work	**The student's work is organized; it is easy to follow and text questions/answers are properly numbered and mini-lessons labeled.**		/5
7. Completion of task	**Task was FULLY completed and passed in on or before due date specified. Due on May Quiz for Section 4.1 will be on**		/5
		Total:	**/100**

TASK 1: Worksheet #1 (Week 11)

Why Did Simeon Wrench Sleep Under His Car?

Simplify or evaluate each expression below, as directed. Find your answer at the bottom of the page and write the letter of that exercise below it.

SIMPLIFY:

(E) $8 + (9 \cdot 3)$

(I) $(8 + 9) \cdot 3$

(A) $14(10 \div 2)$

(Y) $(12 \cdot 3) - (9 \cdot 2)$

(T) $(4 \cdot 10) + (75 \div 25)$

(E) $\dfrac{80 - 3}{8 + 3}$

(P) $13 + [2(9 - 6)]$

SIMPLIFY:

(A) $\dfrac{12 + 8}{12 - 2} + \dfrac{8}{2}$

(O) $3[5(48 \div 12)]$

(T) $\dfrac{50 - [3(7 - 1)]}{2}$

(H) $[4(30 - 5)] \div \dfrac{10}{2}$

(E) $\dfrac{12(15 \div 3)}{(20 \cdot 5) - (20 \cdot 2)}$

(D) $5 + [4 \cdot 3(2 + 1)]$

(W) $\left[\dfrac{6 \cdot 2(8 - 3)}{11 + 4}\right] \cdot 6$

EVALUATE if

$a = 1$ $\quad m = 3$ $\quad x = 6$

$b = 2$ $\quad n = 10$ $\quad y = 0$

(K) $\dfrac{7m + 1}{b}$

(N) $(3n - 2m)(a + b)$

(L) $\dfrac{2(n + x)}{n - x}$

(U) $x[b(m + 1) - 3]$

(W) $\dfrac{mn - 5y}{a + b}$

(O) $(n - a)(n - b)(n - m)(n - n)$

20	7	24	6	72	16	35	41	43	60	10	70	11	1	30	19	0	51	8	18

Why Did Simeon Wrench Sleep Under His Car?

Simplify

(E) $8 + (9 \cdot 3) = 8 + 27 = 35$

(I) $(8+9) \cdot 3 = 17 \cdot 3 = 51$

(A) $14(10 \div 2) = 14(5) = 70$

(Y) $(12 \cdot 3) - (9 \cdot 2) = 36 - 18 = 18$

(T) $(4 \cdot 10) + (75 \div 25) = 40 + 3 = 43$

(E) $\frac{80-3}{8+3} = \frac{77}{11} = 7$

(P) $13 + [2(9-6)] = 13 + 2(3) = 13 + 6 = 19$

Simplify

(A) $\frac{12+8}{12-2} + \frac{8}{2} = \frac{20}{10} + 4 = 2 + 4 = 6$

(O) $3[5(48 \div 12)] = 3[5(4)] = 3(20) = 60$

(T) $\frac{50-[3(7-1)]}{2} = \frac{50-3(6)}{2} = \frac{50-18}{2} = \frac{32}{2} = 16$

(H) $[4(30-5)] \div \frac{10}{2} = 4(25) \div 5 = 100 \div 5 = 20$

(E) $\frac{12(15 \div 3)}{(20 \cdot 5) - (20 \cdot 2)} = \frac{12(5)}{100-40} = \frac{60}{60} = 1$

(D) $5 + [4 \cdot 3(2+1)] = 5 + [4 \cdot 3(3)] = 5 + 4(9) = 5 + 36 = 41$

(W) $\left[\frac{6 \cdot 2(8-3)}{11+4}\right] \cdot 6 = \left[\frac{6 \cdot 2(5)}{15}\right] \cdot 6 = \left[\frac{6 \cdot 10}{15}\right] \cdot 6 = \frac{60}{15} \cdot 6 = 4 \cdot 6 = 24$

Evaluate if $a=1$, $b=2$, $m=3$, $n=10$, $x=6$, $y=0$

(K) $\frac{7m+1}{b} = \frac{7(3)+1}{2} = \frac{21+1}{2} = \frac{22}{2} = 11$

(N) $(3n-2m)(a+b) = (3(10)-2(3))(1+2) = (30-6)(3) = (24)(3) = 72$

(L) $\frac{2(n+x)}{n-x} = \frac{2(10+6)}{10-6} = \frac{2(16)}{4} = \frac{32}{4} = 8$

(U) $x[b(m+1)-3] = 6[2(3+1)-3] = 6[2(4)-3] = 6(5) = 30$

(W) $\frac{mn-5y}{a+b} = \frac{(3)(10)-5(0)}{1+2} = \frac{30}{3} = 10$

(O) $(n-a)(n-b)(n-m)(n-n) = (10-1)(10-2)(10-3)(10-10)$
$= (9)(8)(7)(0) = 0$

20	7	24	6	72	16	35	41	43	60	10	70	11	1	30	19	0	51	8	18
H	E	W	A	N	T	E	D	T	O	W	A	K	E	U	P	O	I	L	Y

Complete the function table for each equation.

1) y = -6x - 3

x	y
-6	
8	
-2	
-4	
3	

2) y = 5x

x	y
-1	
8	
-4	
5	
3	

3) y = x + 8

x	y
-3	
-5	
0	
3	
-7	

4) y = 3x

x	y
-9	
6	
7	
4	
9	

5) y = -9x + 4

x	y
-5	
-8	
1	
6	
3	

6) y = 2x

x	y
0	
2	
-3	
-5	
-4	

7) y = x - 8

x	y
6	
-9	
5	
-6	
-5	

8) y = 7x + 6

x	y
-9	
2	
6	
0	
-3	

9) y = x + 9

x	y
-5	
1	
5	
-9	
-7	

10) y = 4x

x	y
5	
-2	
7	
8	
-1	

11) y = 8x - 2

x	y
-9	
-7	
0	
-8	
6	

12) y = x + 5

x	y
5	
-4	
-1	
-7	
1	

1) $y = -6x - 3$

x	y
-6	33
8	-51
-2	9
-4	21
3	-21

2) $y = 5x$

x	y
-1	-5
8	40
-4	-20
5	25
3	15

3) $y = x + 8$

x	y
-3	5
-5	3
0	8
3	11
-7	1

4) $y = 3x$

x	y
-9	-27
6	18
7	21
4	12
9	27

5) $y = -9x + 4$

x	y
-5	49
-8	76
1	-5
6	-50
3	-23

6) $y = 2x$

x	y
0	0
2	4
-3	-6
-5	-10
-4	-8

7) $y = x - 8$

x	y
6	-2
-9	-17
5	-3
-6	-14
-5	-13

8) $y = 7x + 6$

x	y
-9	-57
2	20
6	48
0	6
-3	-15

9) $y = x + 9$

x	y
-5	4
1	10
5	14
-9	0
-7	2

10) $y = 4x$

x	y
5	20
-2	-8
7	28
8	32
-1	-4

11) $y = 8x - 2$

x	y
-9	-74
-7	-58
0	-2
-8	-66
6	46

12) $y = x + 5$

x	y
5	10
-4	1
-1	4
-7	-2
1	6