LESSON

Write an algebraic expression for each phrase. Use the variable n.

a) Three times a number: _____

, b) Five less than a number:

c) Twenty divided by a number:

d) Seven more than four times a number:

2. Evaluate each expression for n = 5.

a) n + 7 =______

b) 10 - n =_____

c) |2n + 3| =_____

3 a) Zadie climbed four sets of stairs every minute for the Charity Stair Climb Fundraiser. Complete this table. The pattern continues.

Time (minutes)	1	2	3	4	5	6 .	7	8
Sets of stairs climbed								

b) How many sets of stairs will Zadie have climbed after 15 minutes?

4. Write a relation for the pattern rule for each number pattern.

a) 3, 6, 9, 12, 15, ...

b) 8, 9, 10, 11, 12, . . . _____

1.5 5. Complete each table.

How is each Output number related to its Input number?

		_
a)	Input n	Output $3n + 5$
	1	
i.	2	
	3	
	4	
	5	>

Input n	Output $5n + 3$
1 .	
2	
3	
4	
5	

c) [Input n	Output 5 <i>n</i> – 3
	1	,
	2	
	3	
	4	
2	5	

6. Use algebra. Write a relation for each table.

Input m	Output	
1	9	
2	11	
3		
4	15	
5	- 17	

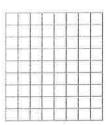
Input m	Output
1	9
2	16
3	23
4	30
5	37

c) [Input m	Output		
	1	5		
	2	12		
	3	19		
Ì	4	26		
Ì	5	33		

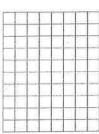
7. Graph each relation in question 6.



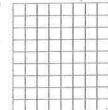
a)



b)



c)



%. Write an equation for each sentence.

Let *n* represent the number.

a)	Four times a	number is	sixteen.	
----	--------------	-----------	----------	--

b) Eight subtracted from four times a number is sixteen.

c)	Twelve more than	four times	a number is sixteen.	_

d) Thirty-two minus four times a number is sixteen.

Write an equation for	each sentence. Let <i>n</i> represent the number.	

a)	rour less	man a	number	12 STYTECH.	

b) A number divided by five is ten. _

9. Robin walked twice around a lake, plus an extra 3 km.

Her pedometer showed that she had walked a total of 19 km.

Write then solve an equation to find how far it is around the lake.

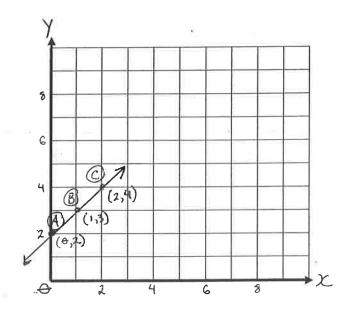
Graphing Table of Values

Name:



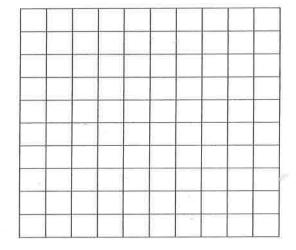
1)

		1	1
x	x+2	у	2
0	0+2 -	2	D(0,2)
1	1 + 2	3	B(1,3)
2	2+2	4	©(2,4)



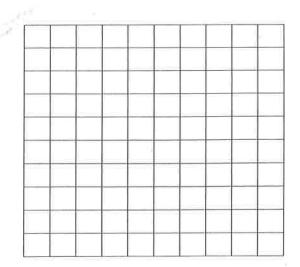
2)

x	2x+2	у
0		
1	•	00
2		



3)

x	4x + 2	у
0		
1		
2		



4)

x	x	у
0		
1		
2	= 1 1 1	

5)

· x	2x	у
0		
1	d.	
2		

6)

x	4x	y
0		
1		
2		

