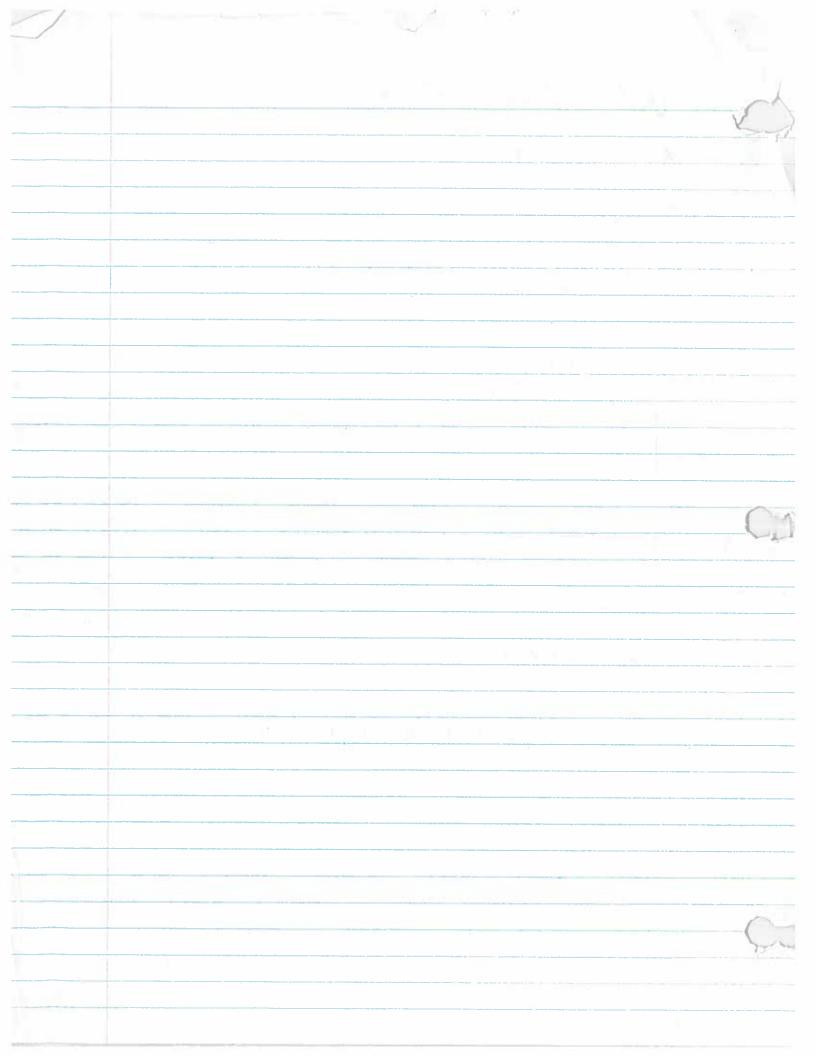
Unit 9: Linear Relations A: analysing Graphs. -> Complete a table of values.

-> Describe a pattern of a graph by including:

1. where it starts 2. how it charges 3. what it relates to. y-axis (horizontal)
y-axis (vertical) Examples: => See Worksheet 9.1 assignment Pg. 337 # 4-16. Hilroy



9.1 Analysing MathLinks 8, page	Graphs	of Lir	near	Date Rela		s	-	8			5
Key Ideas Review											
Use the graph at right to	answer qu	estions #	1 to #4	4.			П		Grapi	h Á	T
1. Complete a table of va	dues for th	e aranh					у 50-		П	\perp	1
r. Complete a table of vi	ilues for th	e grapii.		2		8	40-			-	+
						ost (30- 20-	_		-	+
						0.	120- 10-		•		+
							"]				Ţ
2. Circle the three factor	s that show	uld be inc	ludad	to doca	ribo	-	0	1	2 3	4	5
the pattern on a grap		nu be me	luueu	to desc	ribe	L		Num	ber of	Tick	ets
a) where it starts	b)	how it ch	anges	;	c)	slo	ре	of th	ıe lii	ne	
d) x-axis and y-axis	itles e)	what it re	elates	to							
3. Does the graph above	show a li	inear rela	ition?	How do	you k	nov	v?				

4. Does it make sense to have values between those on the graph? Explain.

Practise and Apply

5. Complete the sentences to describe the graph below.

	Н	eig	ht o	f Bı	ildi	ngs
E	у. 12-					
Height (m)	9-					
<u>=</u>	6-					
Total	3-	L.			-	
12						
	0		_ ;	2	3 4	x
	1	lum	ber	of	Stor	eys

a) The height of a one-storey building is _____ m, a _____ -storey building is 6 m high, a three-storey building is ____ m, ...

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- b) The points appear to lie in a

 straight line. The line
 shows a linear
 relation.
- c) The graph shows that to move from one point to the next, you go _____ unit horizontally, and _____ units vertically.
- **d)** Complete the table of values for this graph.

1	2	3	4	5	10	13
,3 ,	6	9	15	15	30	d

6,7,8,9,10
18,21,24,27,30

6. The graph shows the cost of gasoline based on the volume of gas.

				Cos	t of	Ga	soli	ne	
	45.) y i 00-	_						
	37.		_			_		_	
9						L	_		
ost (30. 22.	50-			<u> </u>	_		_	
	15.	00-							
	7.	50-	<u> </u>						
		0		1	0 1	5 7	0.2	5 3	n x
						me			

a) Does the graph show a linear relation? Explain.

The	points	appea	to	
lie	in a st	rought	line	showing
4	linear	relati	on.	<u>u</u>

- b) The graph shows that for every five units horizontally, you go

 75 units vertically.
- c) Complete the table of values from the graph.

Volume (L)	Cost (\$)
5	7.50
10 = -	15.00
15	17.50
20	30.00

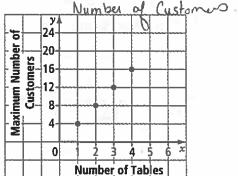
d) Would it be reasonable to include a point for 7 L? Explain.

Yes	gasoline	will	be	sold
at	any V	olum	<u>.</u>	

e) What is the cost of gasoline per litre?

f) If the graph continued, what would be the cost of

7. The graph shows the maximum number of customers based on the number of tables in the restaurant.



- a) Title the graph.
- b) Describe the patterns on the graph. Does the graph show a linear relation?

The points lie in a straight

line showing a linear blationship

For every I unit hor, sontably you

move 4 lunits vertically

c) Complete the table of values for

 c) Complete the table of values for the graph.

Hables	1	2	3	4	5	6
tt of mo)	4	8	12	16	20	24