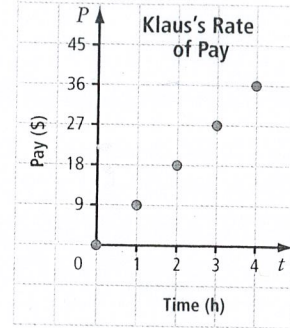


CHAPTER 9 REVIEW

Linear Relations

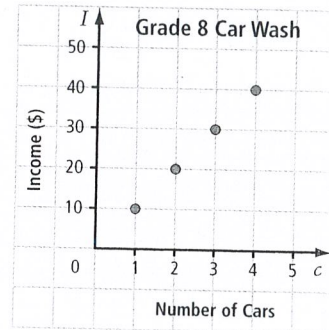
1. Klaus works after school. The graph shows his rate of pay.
 a. Make a table of values from the graph.



X					
Y					

- b. Does the graph represent a linear relation. Explain.
 c. Is it possible to have other points between the ones on this graph? Explain.

2. The graph shows a linear relation.
 a. Describe what the graph is about.

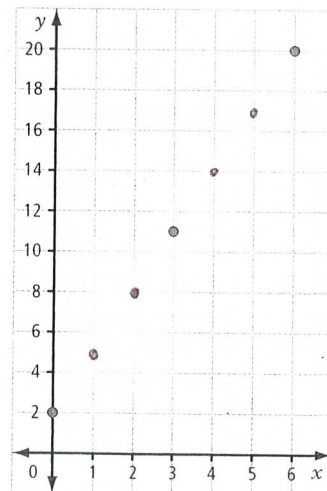


- b. What is the cost of one car wash?
 c. Make a table of values from the graph.

X					
Y					

- d. If 15 cars are washed, what is the income for the grade 8 class?

3. The graph shows part of a linear relation.
 a. Describe the patterns on the graph.



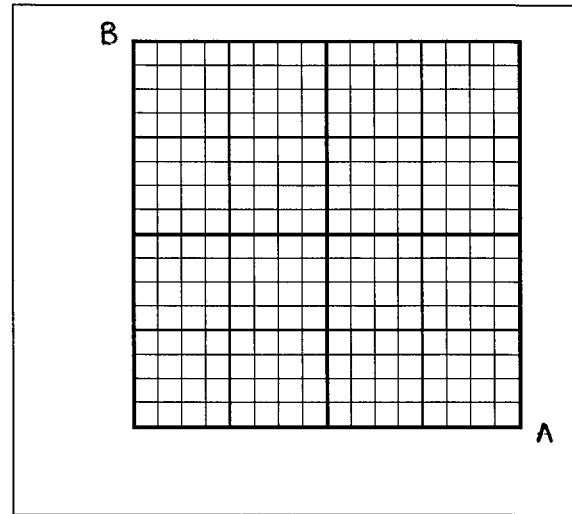
- b. Make a table of values using five whole number values for x.

X					
Y					

- c. What is the value of y when x = 2?
 d. What is the values of y when x = 5?

4. The table of values represents a linear relation.
 a. Graph the ordered pairs.

A	B
0	1
1	5
2	9
3	13
4	17

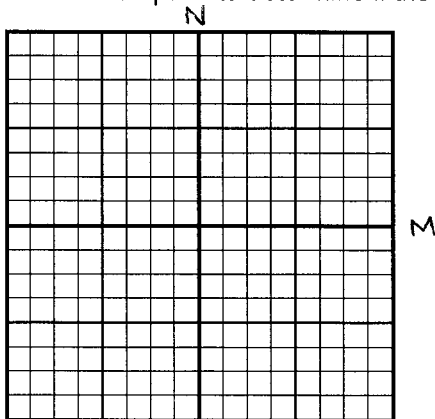


- b. What is the difference in value for consecutive A-values?
 c. What is the difference in values for consecutive B-values?
 d. Describe the relationship between the values for A and B. Use words and an equation.

5. For table of values below, answer the following questions.

M	-2	-1	0	1	2	3
N	-4	-2	0	2	4	6

- a. What is the difference in consecutive values for the first variable? (M)
 b. What is the difference in consecutive values for the second variable? (N)
 c. Graph the ordered pairs to determine if the relationship is linear.



6. Speedy print shop charges \$2 for the first colour copy and \$1 for each additional colour copy.
- a. Make a table of values representing the number of colour copies and the cost. Include zero to five for your "colour copies".

X	0	1	2	3	4	5
Y						

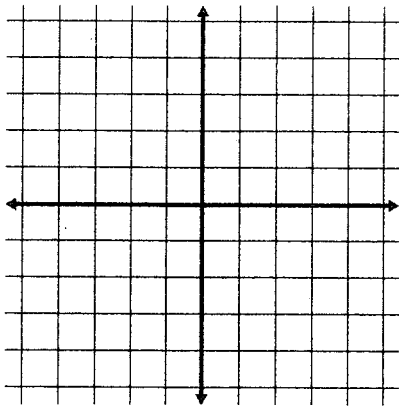
- b. Is this a linear relation? Explain.
- c. What is an expression for the cost in terms of the number of colour copies?
- d. What is the cost of 12 colour copies?

7. For the equation $y = -2x + 3$

- a. Complete the table of values:

x	y
-2	
-1	
0	
1	
2	

- b. Graph the sets of ordered pairs



For each equation, determine the value for y when $x = -7$.

a. $y = 7x$

b. $y = 3x - 1$

c. $y = 2x + 3$