Communicate the Ideas

1. Giselle and Tim are discussing the table of values.

m	3	5	7	9
а	1	3	5	7

- a) Who is correct? Circle GISELLE or TIM.
- **b)** How do you know? _____



Check Your Understanding

Practise

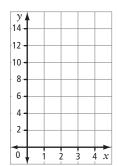
- 2. 1 5 2 8 3 11 4 14
- a) The difference between consecutive x-values is ______.

$$(4-3=$$
______, $3-2=$, ______, and $2-1=$ ______)

b) The difference between consecutive *y*-values is ______.

$$(14-11 = \underline{\hspace{1cm}}, 11-8 = \underline{\hspace{1cm}}, and \underline{\hspace{1cm}})$$

- c) Does this table of values describe a linear relation? Circle YES or NO. Give 1 reason for your answer.
- **d)** Graph the table of values.



e) Look at the graph. Describe the movement from (1, 5) to the next point.

Starting at (1, 5), move

_____ unit horizontally and

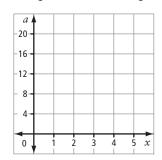
_____ units vertically.

3. The table of values describes a linear relation.

x	0	1	2	3	4	5
а	0	4	8	12	16	20

- a) The difference between consecutive x-values is ______.
- **b)** The difference between consecutive *a*-values is ______.

c) Graph the ordered pairs.



d) Look at the graph. Describe in words how to move from (0, 0) to the next point.

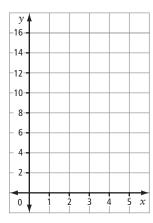
e) Write a in terms of x.

Words	Order	ed Pair	Expression		
a is times x	(x,	<i>x</i>)		x	

- 4. \boldsymbol{x} 2 7 3 10 4 13 5 16
 - a) What is the difference between consecutive x-values?
 - **b)** What is the difference between consecutive y-values? Is the difference the same for consecutive values? Circle YES or NO.
 - c) Is the relationship in the table of values a linear relation? Circle YES or NO. Give 1 reason for your answer.

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d) Check by graphing.



Name:	Date:
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Apply

- 5. Mara reads 90 words per minute.
 - a) Complete the table of values.

Number of Minutes, m	1	2	3	4	5	6
Number of Words, w						

b) Explain how you can find out if this is a linear relation.

- c) If the number of minutes is m, then the expression for the number of words is $\underline{\hspace{1cm}} \times m$.
- d) How many words can Mara read in 15 min?

Sentence:

- **6.** A community centre has a new banquet hall. The centre charges \$5 per person to rent the hall.
 - a) Complete the table of values.

Number of People, p	1	20	40	60	80	100
Rental Cost, C (\$)	5					

- **b)** If the number of people is p, then the expression for the rental cost is ______.
- c) How much will it cost for 150 people?

Sentence: