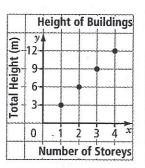
# key

### Math 8: Linear Relations Final Exam Review

- Analyzing Graphs of Linear Relations
  - a. Complete the sentences to describe the graph below.



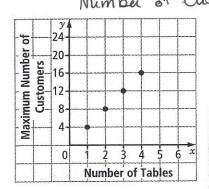
The height of a one – storey building is \_\_\_\_\_\_ m, a \_\_\_\_\_\_ - storey building is 6 m high, a three – storey building is \_\_\_\_\_ m. The points appear to line in a \_\_\_\_\_\_ in \_\_\_\_ in \_\_\_\_ . The line shows a \_\_\_\_\_\_ relation. The graph shows that to move from one point to the next, you go \_\_\_\_\_ unit horizontally, and \_\_\_\_\_ 3 \_\_\_\_ vertically.

Complete the table of values for this graph.

# Storeys	1	2	3	4	5	10
Total height	3	6	9	12	15	30

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

Number of Customers



Pattern: The points lie on a Straight line Showing a linear relation?

Pattern: The points lie on a Straight line Showing a linear relation. Every lunit moved norizontally Hunits are moved Vertically.

Complete the table of values for the graph on the previous page.

# oftables	1	2	3	4	5	6
# customers.	4	8	12	16	20	24

#### Patterns in Tables of Values

a. Draw a graph using the ordered pairs in the table of values.

W	2	8	14	20
t	2	14	26	38

See Graph Paper.

b. Is this a linear relationship? If so what is an expression for "d" in terms of "n"?

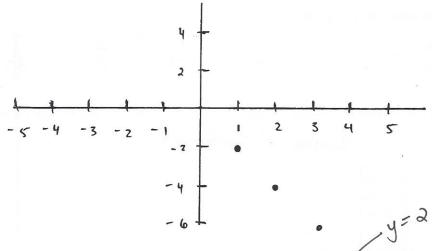
n	6	8	10	12	14
d	36	48	60	72	84

## Linear Relationship

a. A texting plan can be represented by C = 2t, where C is the cost in cents and t is the time in minutes.

Make a table of values. Graph the ordered pairs. Is it reasonable to have points between the ones on your graph? See Graph Page.

b. The graph below represents part of y = -2x.



Use the equation to calculate the y – coordinate when x = -1. What is the value of x in (x, -4)? What are the coordinates for the point that lies on the y – axis?

#### **Questions to Review**

Chapter 9 Get Ready

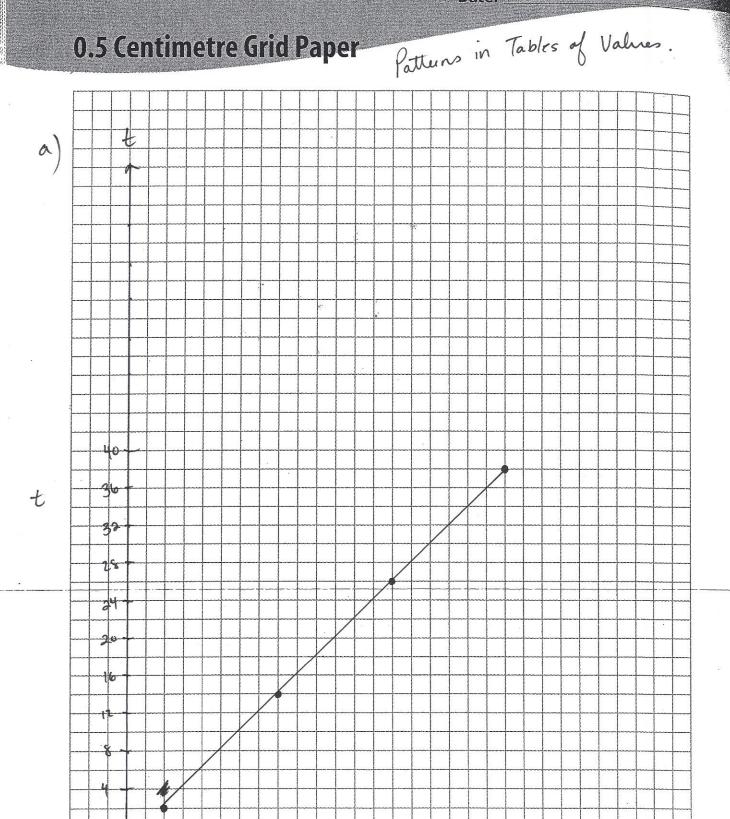
Page 337#4-16

348 # 4 - 18

357 # 5 - 12

Linear Relations Assignment

**Linear Relations Test** 

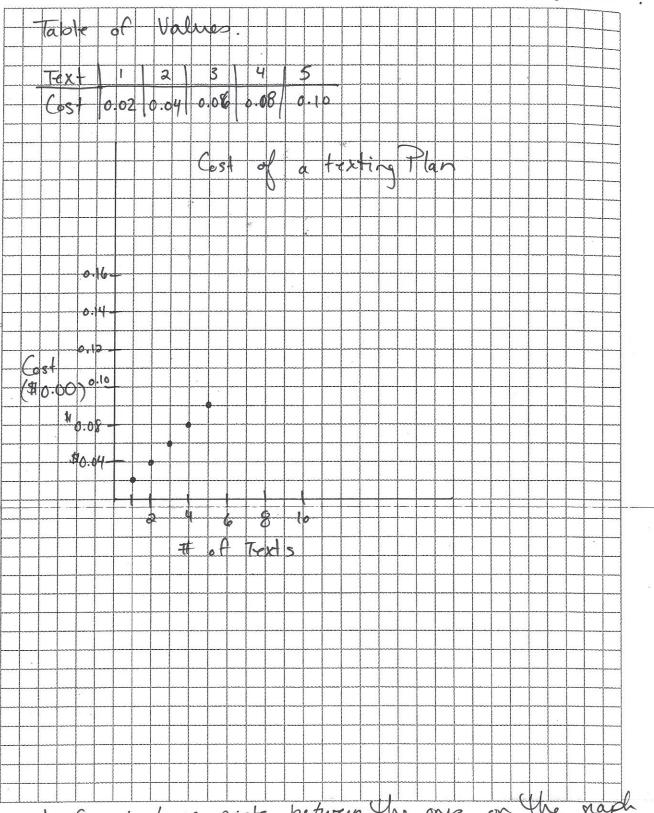


the

12

# 0.5 Centimetre Grid Paper

Patterns in Tables of Values.



\* Cannot have points between the ones on the graph because you cannot have portions of a text message.

152 MHR • 0.5 Centimetre Grid Paper (Can't have 1.5 text messages)