**Math 8: Linear Relations Final Exam Review**

* **Analyzing Graphs of Linear Relations**

1. 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 . The line shows a relation. The graph shows that to move from one point to the next, you go unit horizontally, and vertically.

Complete the table of values for this graph.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | 1 | 2 | 3 | 4 |  | 10 |
|  | 3 |  |  |  | 15 |  |

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

Title the graph. Describe the pattern on the graph. Does the graph show a linear relation?

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | 1 |  |  | 4 | 5 | 6 |
|  | 4 | 8 |  |  |  |  |

* **Patterns in Tables of Values**

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **W** | 2 | 8 | 14 | 20 |
| **t** | 2 | 14 | 26 | 38 |

1. 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

1. 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?

1. 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?

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