**QUIZ 6-7A**

1. Square tiles are placed in a pattern below.

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| --- | --- | --- | --- |
| **Step 1** | **Step 2** | **Step 3** | **Step 4** |
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1. Draw step 4.
2. Complete the table.

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| --- | --- | --- | --- | --- | --- |
| **Step # (*x*)** | 1 | 2 | 3 | 4 | 5 |
| **# of squares (*y*)** |  |  |  |  |  |

1. Write a rule for the pattern.
2. How many square tiles are in step 50?
3. Gloria is riding her electric scooter. She rides it at a constant rate for 4 hours and travels 64 kilometers.
4. Complete the table.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Time in hours (*t*)** | 4 | 2 | 1 | 3 |  |  |
| **Distance in kilometers (*d*)** |  |  |  |  | 8 | 24 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 1. Write an equation that relates distance and time.
2. Draw a graph to represent the data. Be sure to label the graph and scale axes.
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**QUIZ 6-7A**

**Continued**

1. Two music companies stream music at different price rates.

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| --- | --- | --- |
| Music Mania4 songs for $6 |  | Streaming Songs Inc.8 songs for $10 |

1. Complete the table for each.

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| --- | --- | --- |
| **Music Mania** |  | **Streaming Songs Inc.** |
| **Quantity (x)** | **Cost in $ (y)** | **Quantity (x)** | **Cost in $ (y)** |
| 4 |  | 8 |  |
| 8 |  | 4 |  |
| 1 |  | 1 |  |
| 2 |  | 2 |  |
| 3 |  | 3 |  |

1. Write a rule for each.

Music Mania: \_\_\_\_\_\_\_\_\_\_ Streaming Songs Inc: \_\_\_\_\_\_\_\_\_\_

1. Complete a graph for each, including a title and labels.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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1. Which company has a lower unit price? Explain.