Graphing and Analyzing   
 a Linear Relation

**Patterns and Relations**

**Unit 1 Line Master 2**

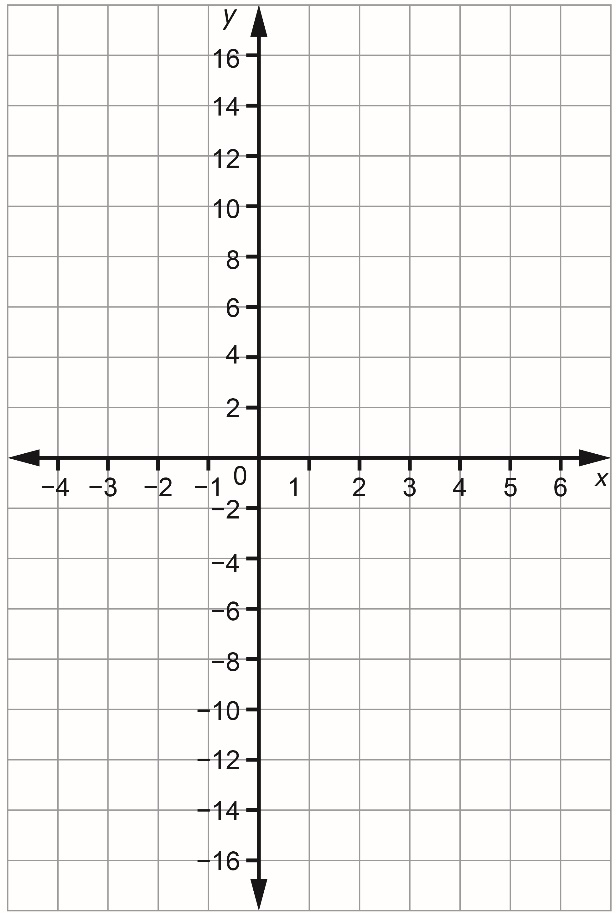
Start with the relation *y* = 3*x* – 4, where *x* is an integer.

1. Complete the table of values.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***x*** | −3 | −2 | −1 | 0 | 1 | 2 |
| ***y*** |  |  |  |  |  |  |

2. Write the information from the table as a series of ordered pairs.

3. Graph the ordered pairs.



Graphing and Analyzing   
 a Linear Relation (cont’d)

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4. Is this an increasing or decreasing graph?  
 Explain how you know.

5. What is the value of *y* when *x* is 6?   
 How did you determine your answer?

6. Does the point (4, 9) lie on the graph?  
 How do you know?