Name_____ Date_____
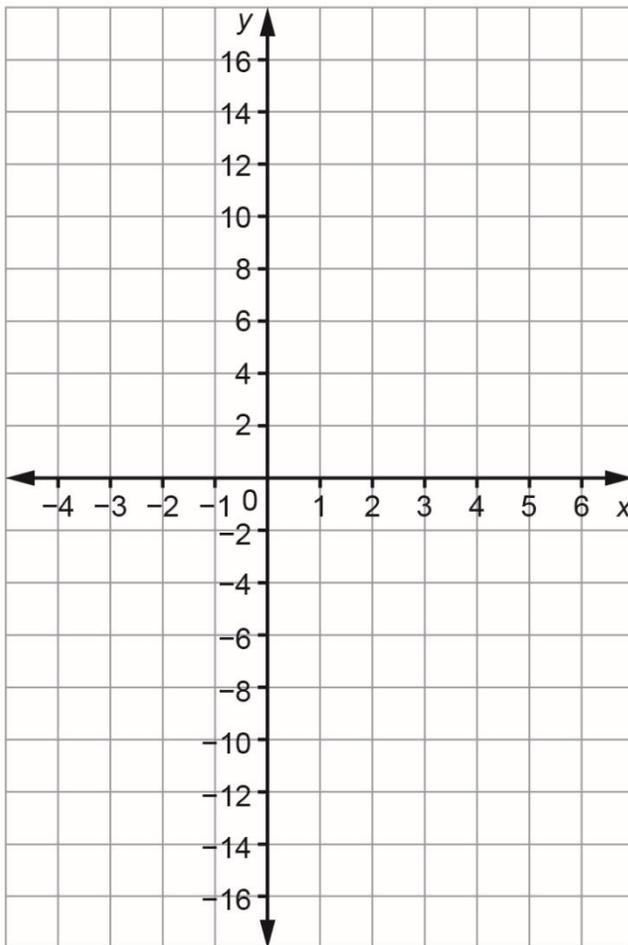
Analyzing a Linear Relation

Start with the relation $y = 3x - 4$, where x is any number.

1. Determine the values of y that complete the table of values.

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

3. Graph the ordered pairs and join them with a line.

x	y
−3	
−2	
−1	
0	
1	
2	

Mathology 8, *Patterns and Relations*
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Analyzing a Linear Relation (cont'd)

4. Why can you join the points on the graph with a line?

5. Is this an increasing or decreasing relation?
   Explain how you know.

**Algebra
Unit 1 Line Master 4c**

Analyzing a Linear Relation (cont'd)

6. What is the value of *y* when *x* is 6?
   How can you determine the answer using the graph?
   How can you determine the answer using the equation?

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