

# Graphs and Patterns Practice

Use patterns to complete the chart.

x	y
3	9
4	
5	15
6	18

How did you know what number to put in the blank?

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What is y if x=7? \_\_\_\_\_

What is y if x=11? \_\_\_\_\_

What number patterns do you notice in this chart? List as many as you can find.

- ❖ \_\_\_\_\_
- ❖ \_\_\_\_\_
- ❖ \_\_\_\_\_
- ❖ \_\_\_\_\_

In parenthesis next to the patterns you listed above write whether the pattern is recursive or algebraic. Remember the **recursive rules** will be **x to x to x** or **y to y to y**. The **algebraic rules** will relate the **values of x to the values of y**.

Can you write the algebraic pattern as an equation? Remember you need to think about what you need to do to x to get y.

**y** =

On the back of this page or on another sheet of paper draw a line graph to represent the data. Remember the x-axis is horizontal and the y-axis is vertical.