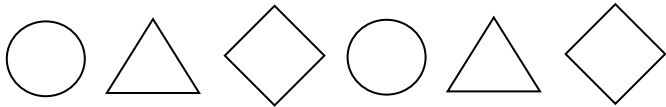


Patterns and Functions Study Guide

SOL 3.19

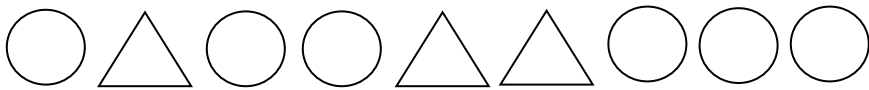
Geometric Patterns

Repeating:



A geometric repeating pattern is a group of shapes that occur over and over again like the one pictured above (circle, triangle, rhombus...). You can label it with letters or numbers. For example, in the pattern above you can label it 1 2 3 1 2 3 or A B C A B C.

Growing:



A geometric growing pattern is a group of shapes increasing in number like the one pictured above (one circle, one triangle, two circles, two triangles, three circles...). You can label it with letters or numbers. For example, in the pattern above you can label it 1 2 1 1 2 2 1 1 1 or A B A A B B A A A.

Numeric Patterns

Repeating: 1, 3, 5, 1, 3, 5, 1, 3, 5

A numeric repeating pattern is a group of numbers that occur over and over again in sequence like the one pictured above (1, 3, 5...).

Growing: 6, 9, 12, 15, 18, 21

A numeric repeating pattern starts with one number then increasing or decreasing using a mathematical operation. For example, the pattern above starts with 6 then increasing by adding 3 each time. Numeric repeating patterns can also decrease.

Tables:

Input	Output
8	2
12	3
16	4

Numeric patterns can also be shown using an input/output table. The table to the left shows a table that has a rule of "divide by 4". When you take the input number (8) and apply the rule (8 divided by 4), you will get the output number (2).