

# Art, Geometry, and Fractions OH MY!!!

## GEOMETRY



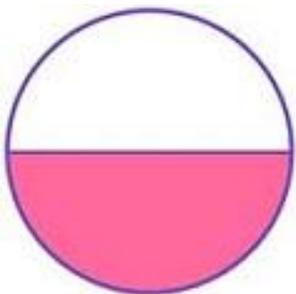
We use **GEOMETRY** in mathematics **AND** art! When we talk about and use **LINES**, **SHAPES**, and **FORMS** (3D shapes) we are using geometry!

**LINES**, **SHAPES**, and **FORMS** are also 3 of the 7 Elements of Art!

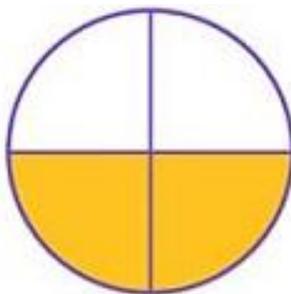
## FRACTIONS



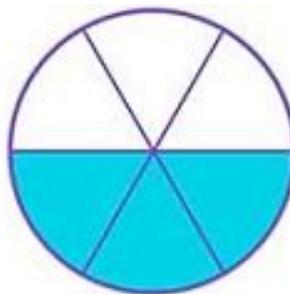
A **fraction** is a part of a whole number, and a way to split up a number into equal parts. It is written as the number of equal parts being counted, called the numerator, over the number of parts in the whole, called the denominator. These numbers are separated by a line.



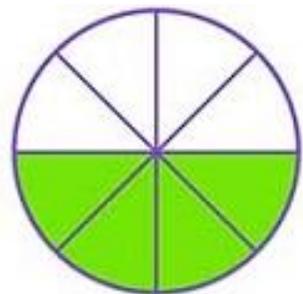
$$\frac{1}{2}$$



$$\frac{2}{4}$$



$$\frac{3}{6}$$



$$\frac{4}{8}$$



# ART!!!!

This week you are invited to create a collage out of fractions of circles and other geometric shapes. It can be a geometric design or a picture of anything you like.

## Materials:

Colorful paper or thin cardboard  
Pencil  
Ruler (or other straight edge)  
Scissors

Paper for background  
Glue, glue stick, or tape  
Circles to trace



**Step 1:** Decide on which colors of paper/cardboard you want to use a pencil to trace a variety of different size circles on them.



**Step 2:** Carefully cut out your circles.

**Step 3:** Fold and cut your circles into various fractions. You should have at least 3 different fractions showing in your finished work of art: Whole,  $\frac{1}{2}$ ,  $\frac{1}{4}$ ,  $\frac{1}{8}$



**BE CAREFUL NOT TO LOSE ANY PIECES!**

**Take your time so they look like nice slices of pizza! See hint below . . .**



# HELP



**Helpful Hint:** Fold your circle **ONE TIME** and cut on the fold, then continue to keep folding and cutting **ONE** at a **TIME** - you will have an easier time cutting and your cuts will be neater.



**Step 6:** Once you have your **FRACTIONS** arranged into a composition (arrangement) that you like, pick up **ONE** piece at a time to glue or tape down. Be careful to make sure your design stays symmetrical!

**REMINDER!** Use a little glue around the **PERIMETER** (the edges of the shape) and it will stay a lot better than a huge glob of glue in the middle.



You can cut and glue other shapes that you need to complete your idea!

\*\*\*\*When the glue is dry, add more details with drawing tools: crayons, markers, or colored pencils.



When you are finished with your art and the glue has dried, PLEASE go to your Seesaw Blog and make a video of yourself telling me about your art! Here's what you should tell me:

- 1) What is the **SUBJECT**? - What is your art about?
- 2) What **MEDIA** (materials) did you use?
- 3) What was your **PROCESS** (steps you took to make it)?

### N.C. Essential Standards:

1.V.1.4 Understand characteristics of the Elements of Art, including lines, shapes, colors, textures, form, and shape

1.V.3.1 Use a variety of tools safely and appropriately to create art

1.V.3.3 Use the process of collage to create art

1.CX.2.2 Identify connections between art and concepts from other disciplines, such as math, science, language arts, social studies, and other arts

1.CR.1.2 Explain how and why personal works of art are made, focusing on the media and process

2.V.1.1 Use appropriate art vocabulary when discussing media, processes, or images in art

2.V.1.4 Understand characteristics of the Elements of Art, including lines, shapes, colors, textures, form, and shape

2.V.3.1 Use a variety of tools safely and appropriately to create art

2.V.3.3 Use the process of collage to create art

2.CX.2.2 Identify connections between art and concepts from other disciplines, such as math, science, language arts, social studies, and other arts

2.CR.1.2 Use art terminology to describe art in terms of subject and physical characteristics