

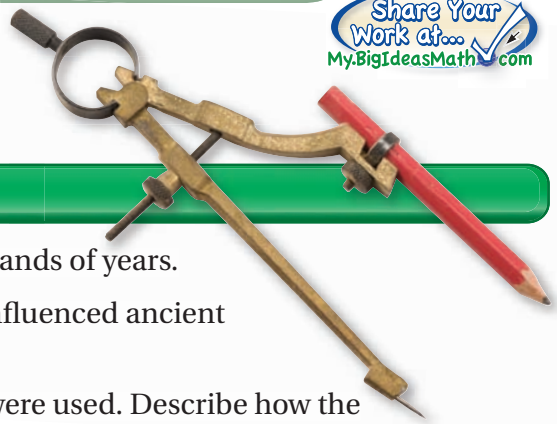
Circle Art

1 Getting Started

Circles have been used in art for thousands of years.

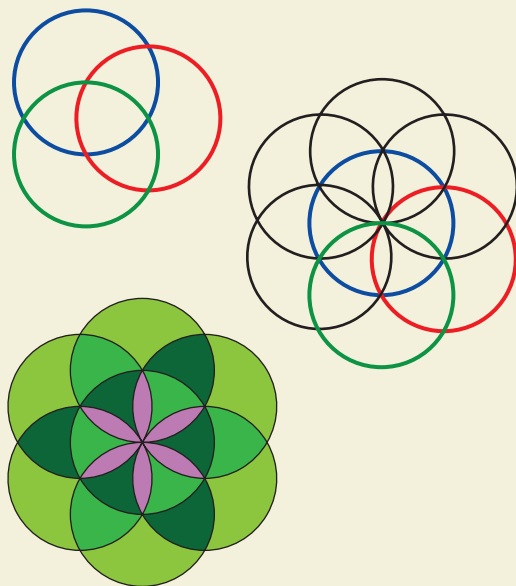
Essential Question How have circles influenced ancient and modern art?

Find examples of art in which circles were used. Describe how the artist might have used properties of circles to make each piece of art.



Sample: Here is a technique for making a pattern that uses circles in a stained glass window.

1. Use a compass to draw a **circle**.
2. Without changing the radius, draw a **second circle** whose center lies on the **first circle**.
3. Without changing the radius, draw a **third circle** whose center is one of the points of intersection.
4. Without changing the radius, continue to draw new circles at the points of intersection.
5. Color the design to make a pattern.



Mexican Tile



Ancient Roman Mosaic

2 Things to Include

- Describe how ancient artists drew circles.
- Describe the symbolism of circles in ancient art.
- Find examples of how circles are used to create mosaic tile patterns.
- Measure the angles that are formed by the patterns in the circle art you find. For instance, you might describe the angles formed by the netting in the Native American dreamcatcher.
- Find examples of the use of circles in modern art.
- Use circles to create your own art. Describe how you used mathematics and the properties of circles to make your art.



Native American Dreamcatcher



3 Things to Remember

- Add your own illustrations to your project.
- Try to include as many different math concepts as possible. Your goal is to include at least one concept from each of the chapters you studied this year.
- Organize your report in a folder, and think of a title for your report.

